

FIG. 1

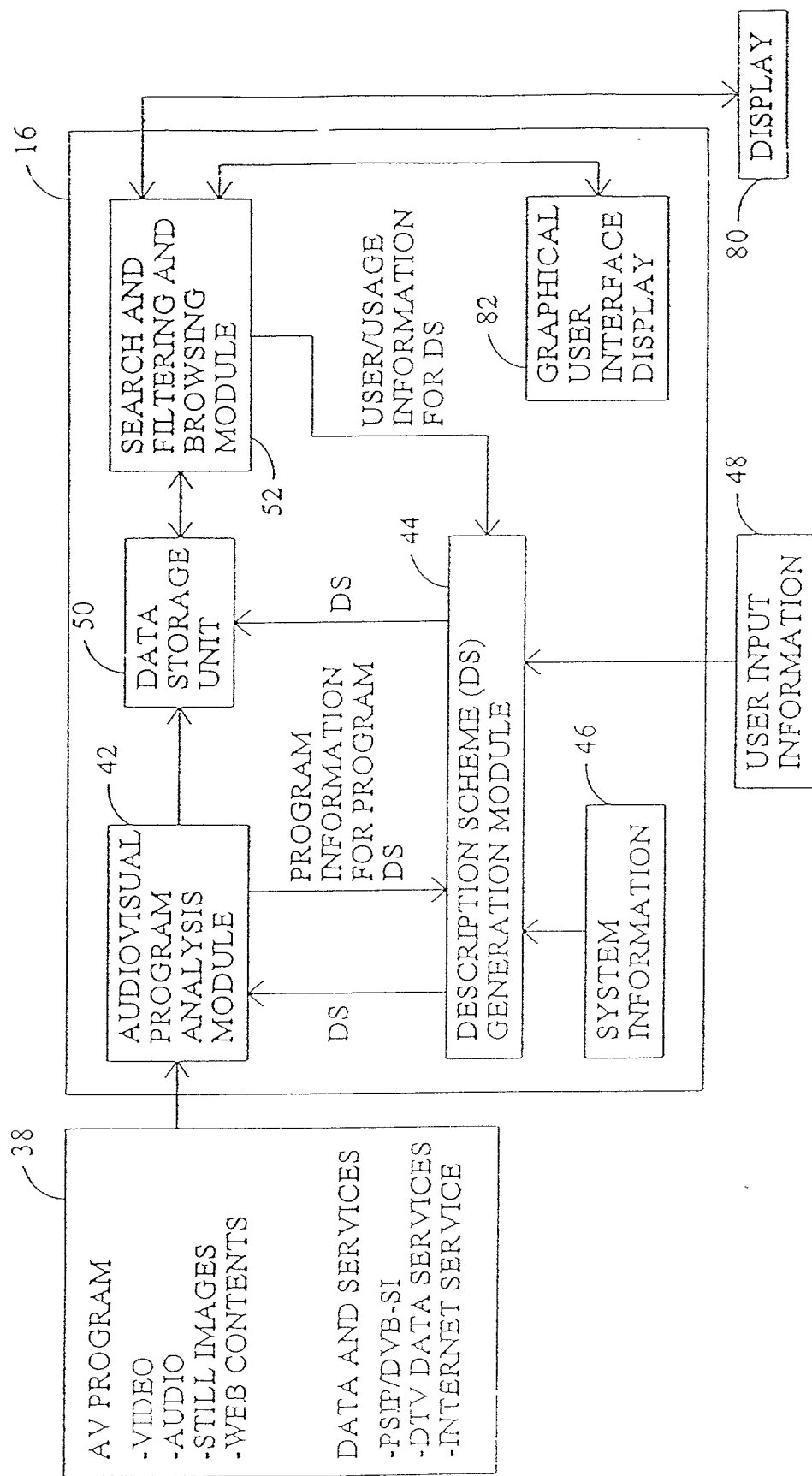


FIG. 2

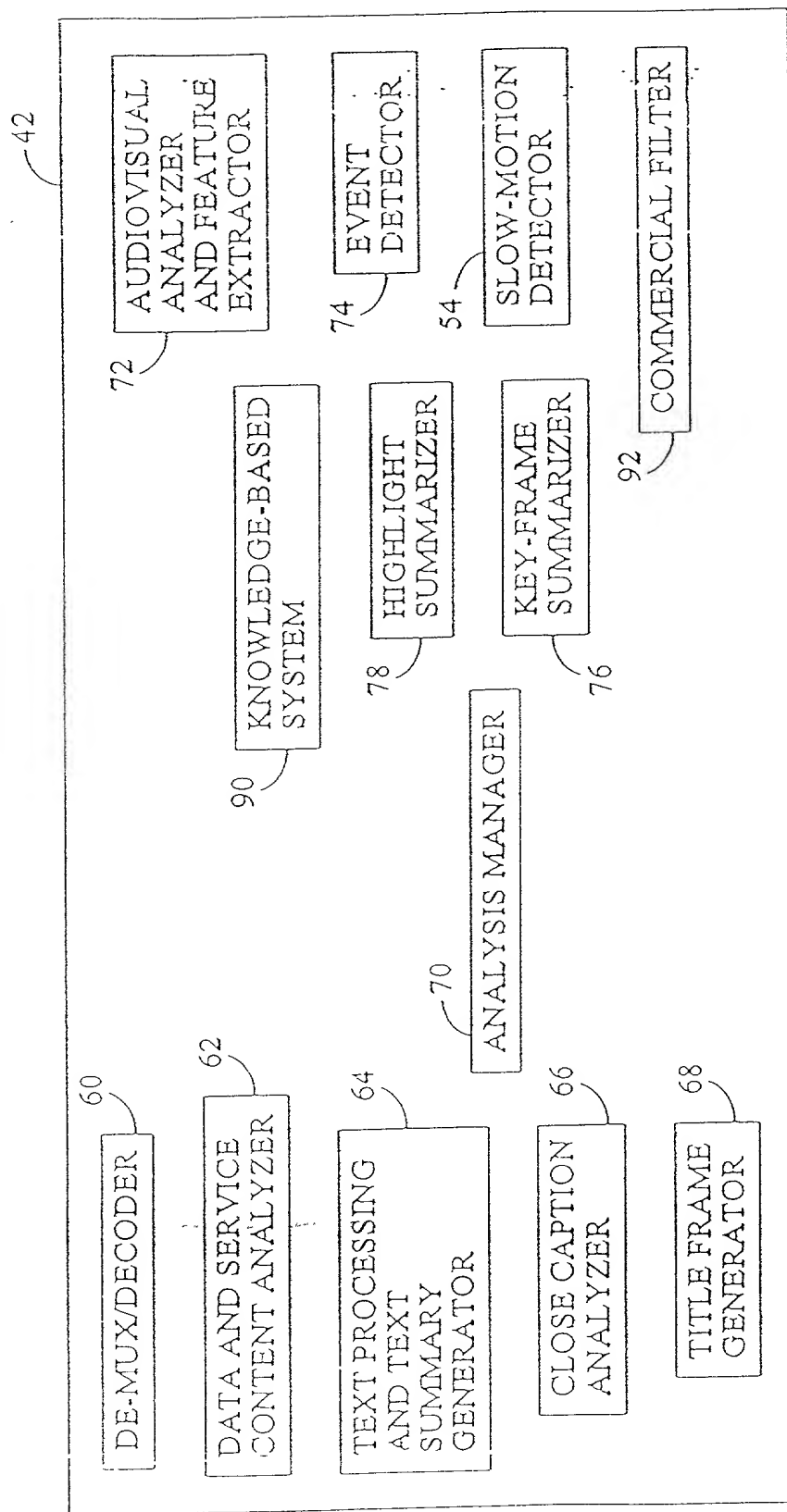


FIG. 3

# Thumbnail View (Category)

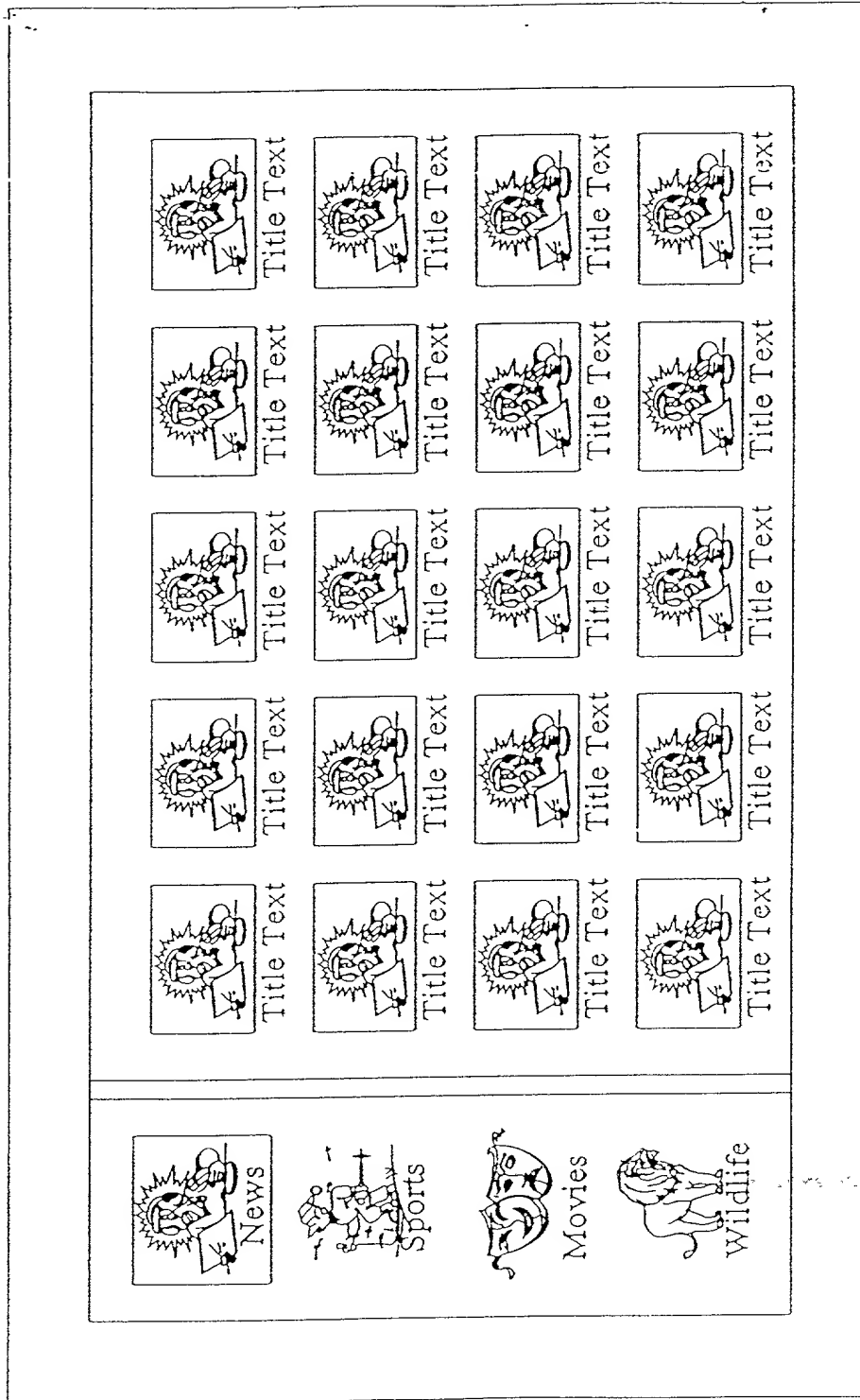


FIG. 4

# Thumbnail View (Channel)

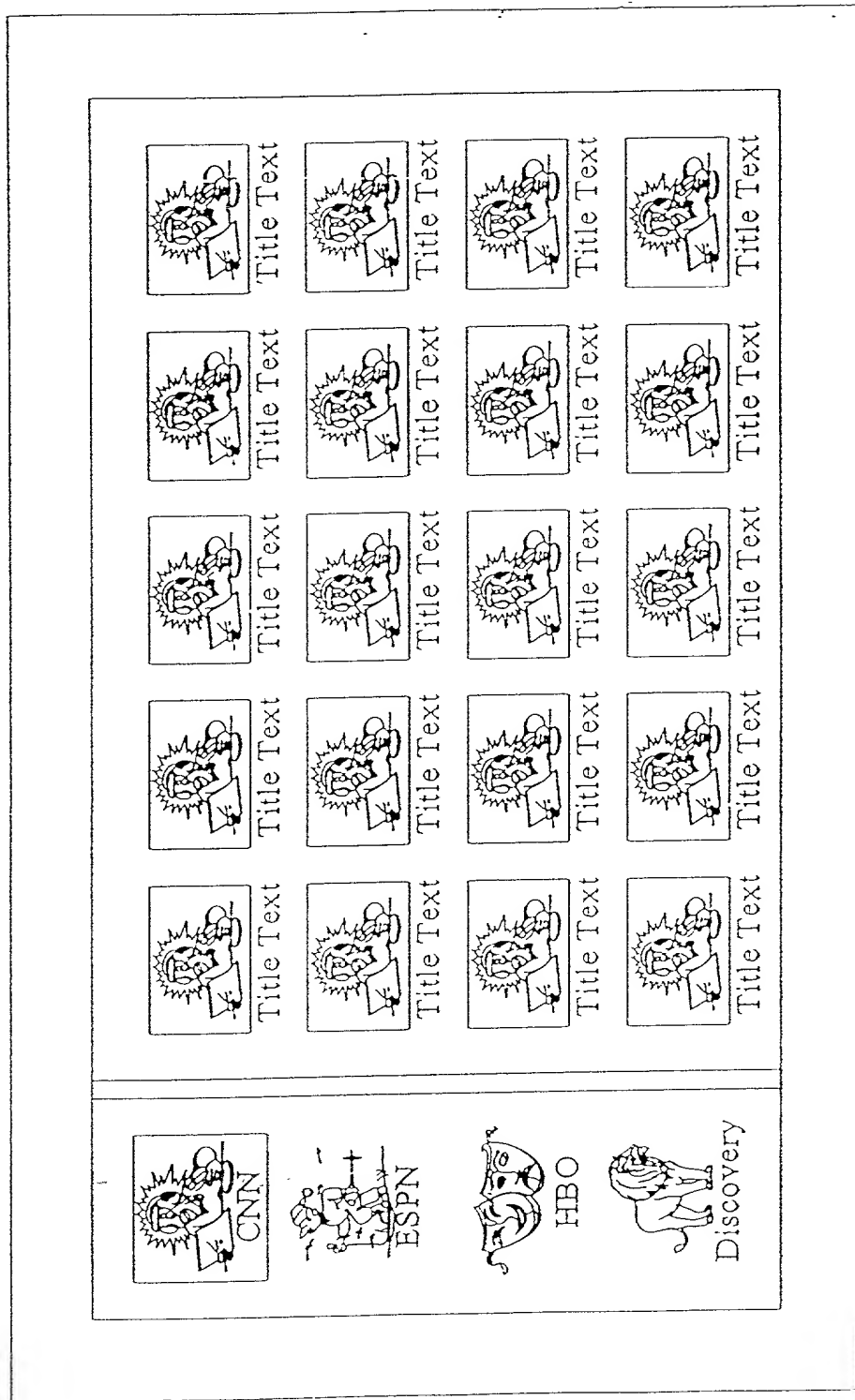


FIG. 5

# Text View (Channel)

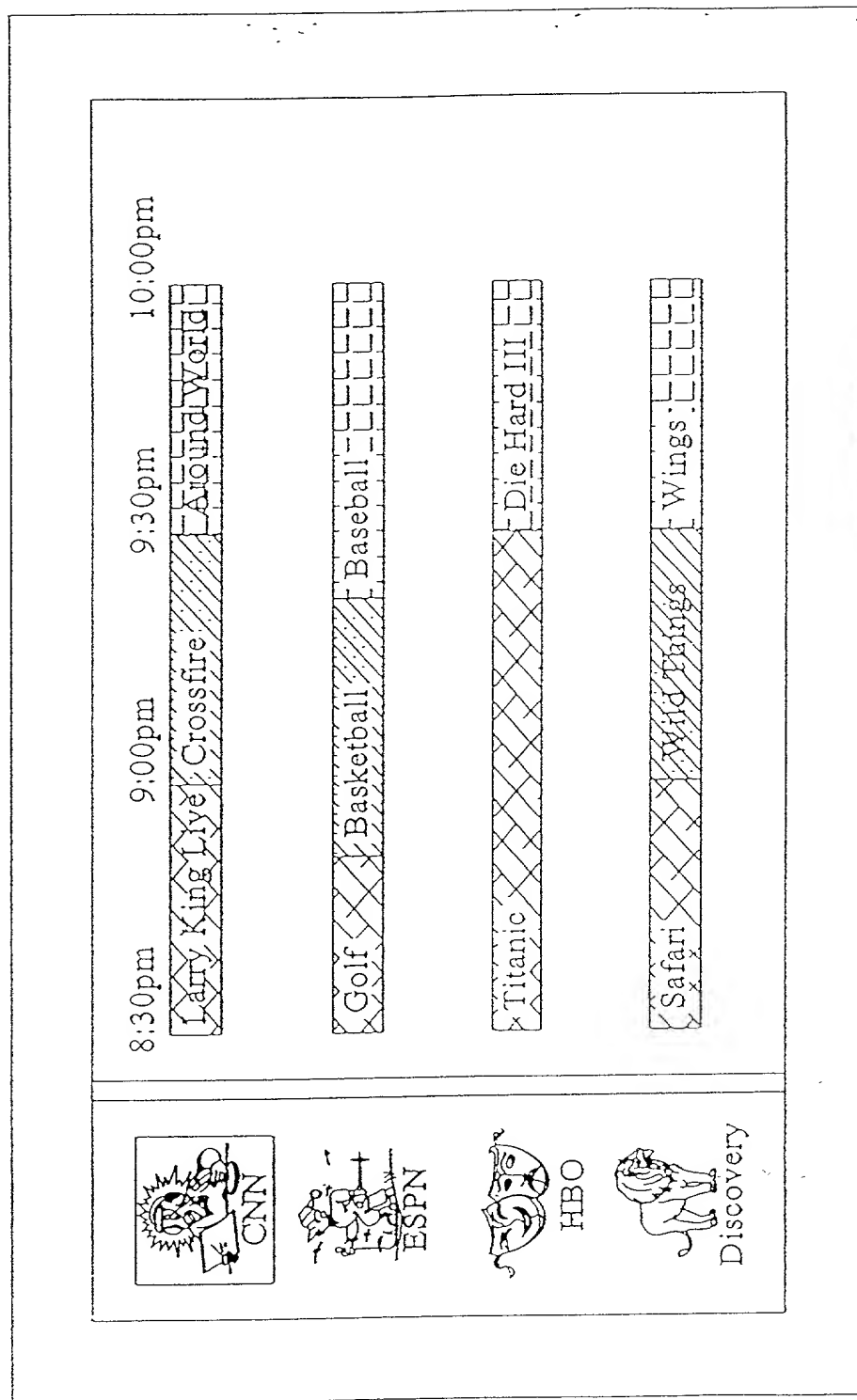


FIG. 6

# Frame View

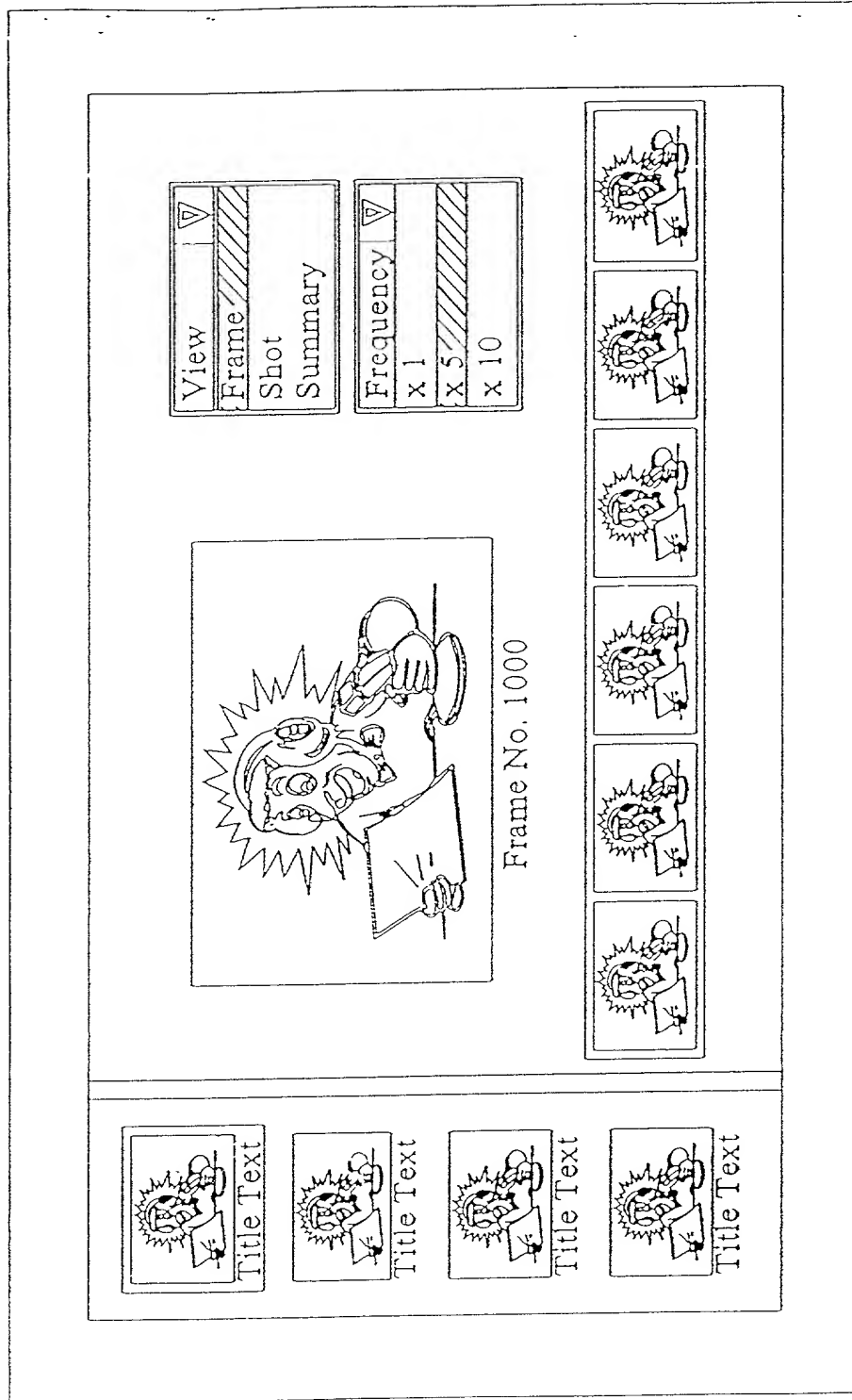


FIG. 7

# Shot View

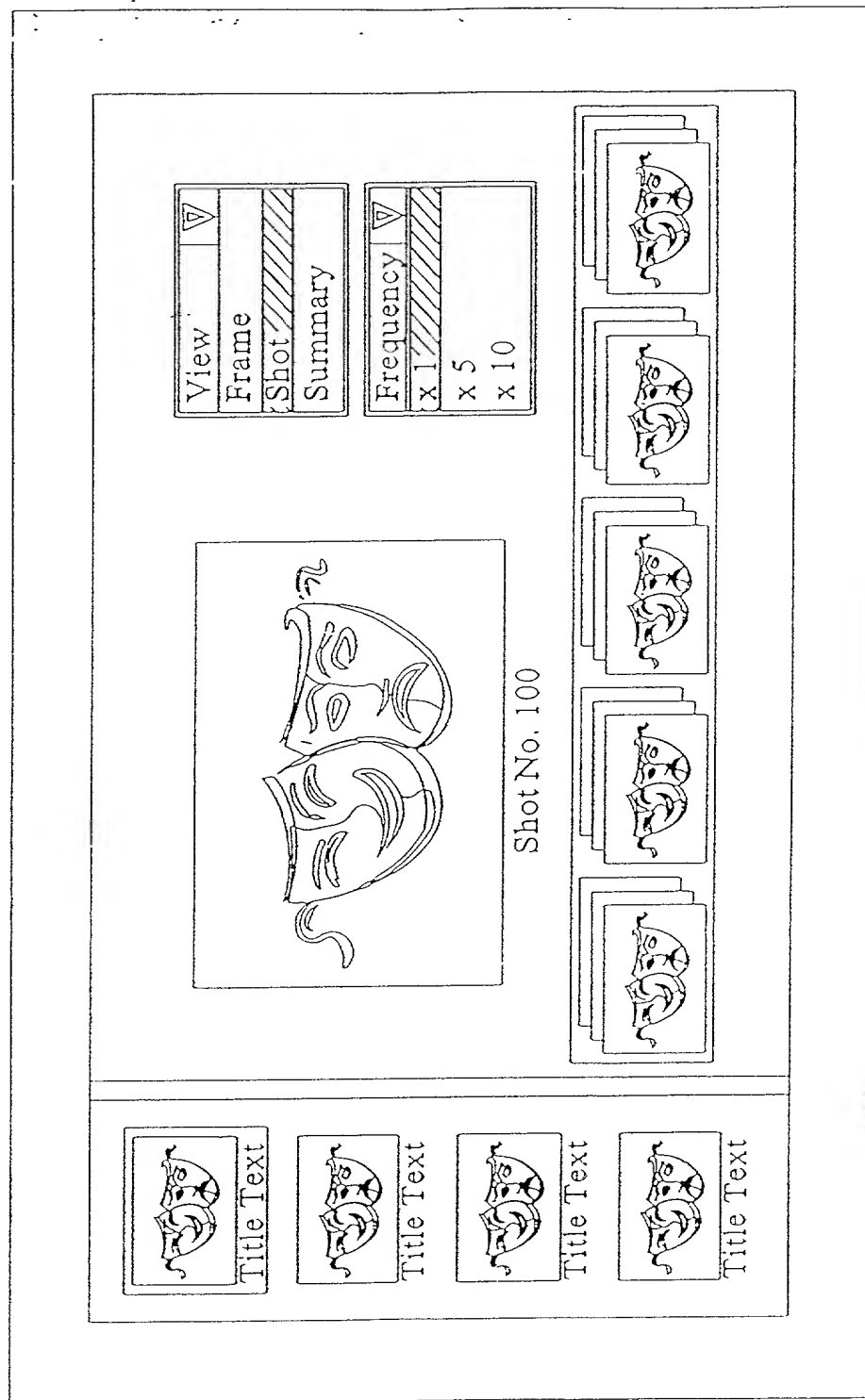


FIG. 8



# Key Frame View

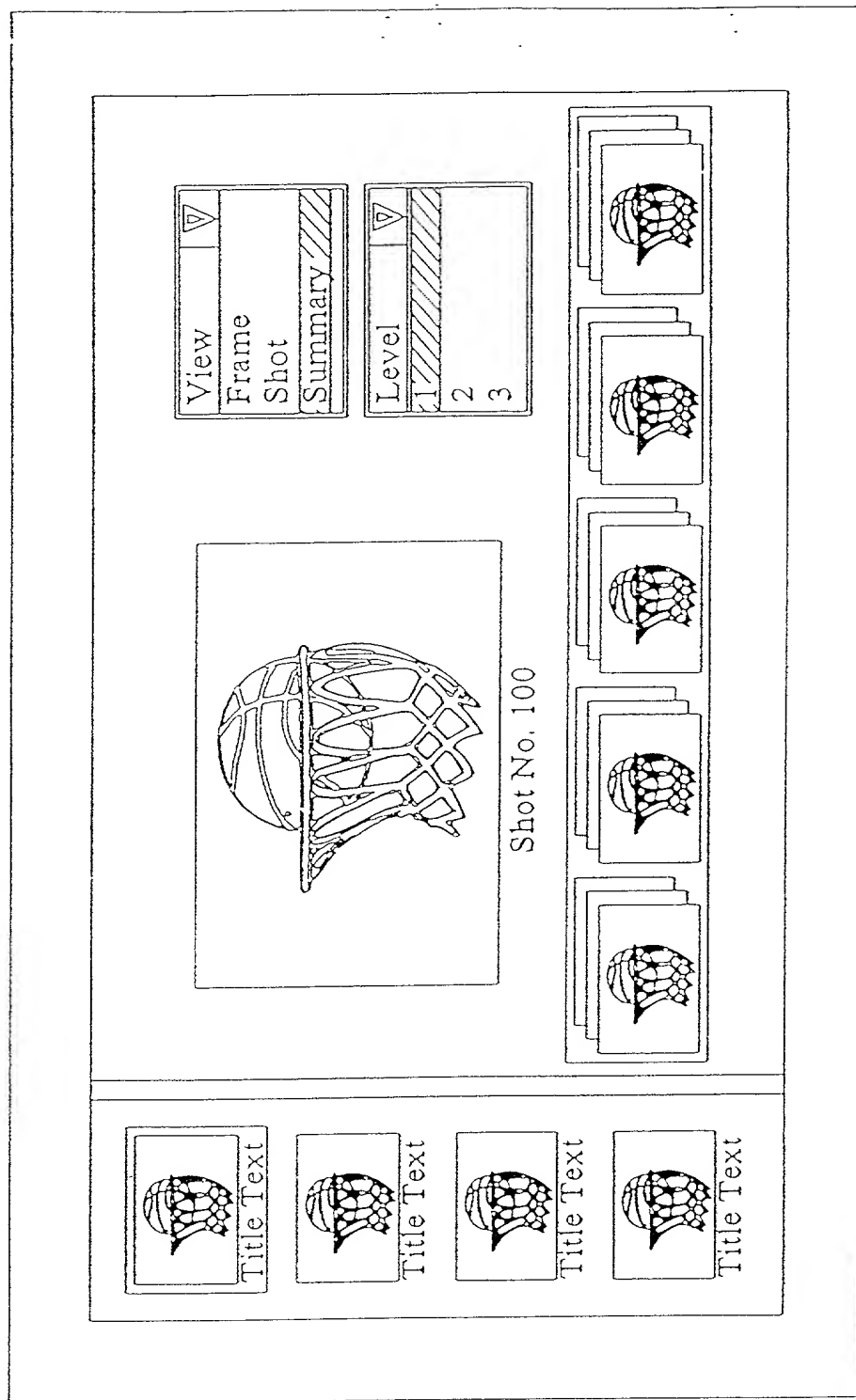


FIG. 9

# Highlight View

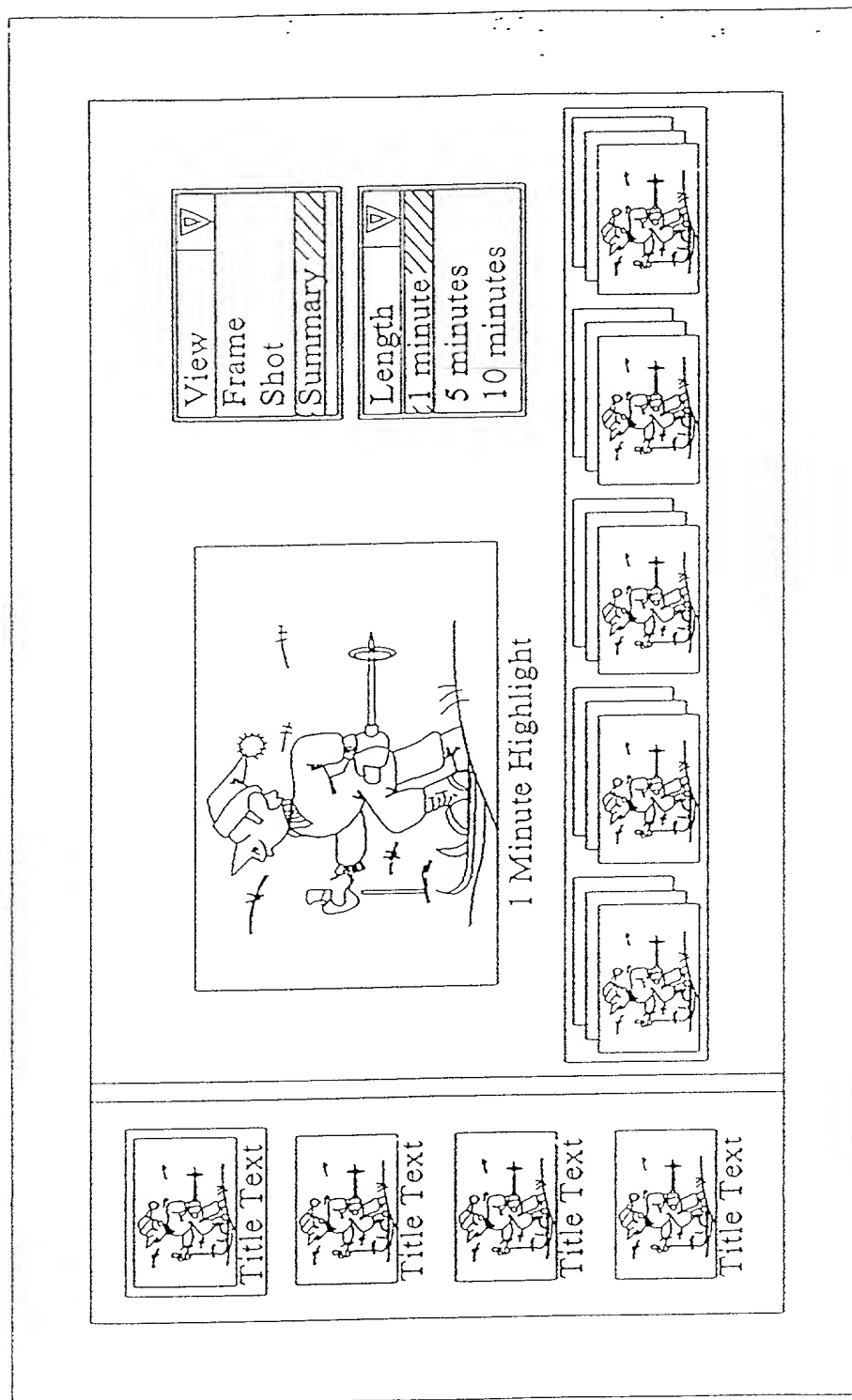


FIG. 10

# Event View

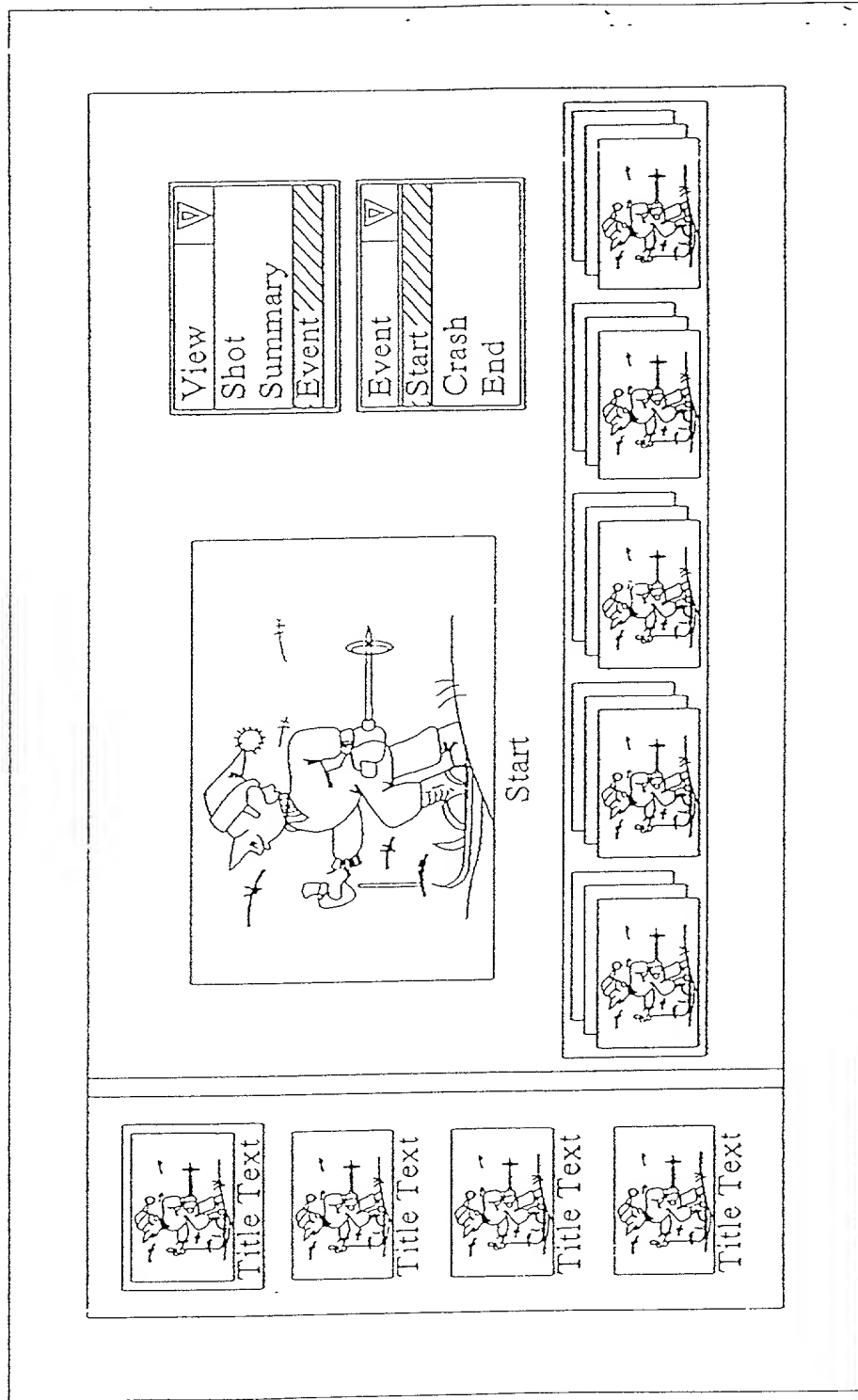


FIG. 11

# Character/Object View

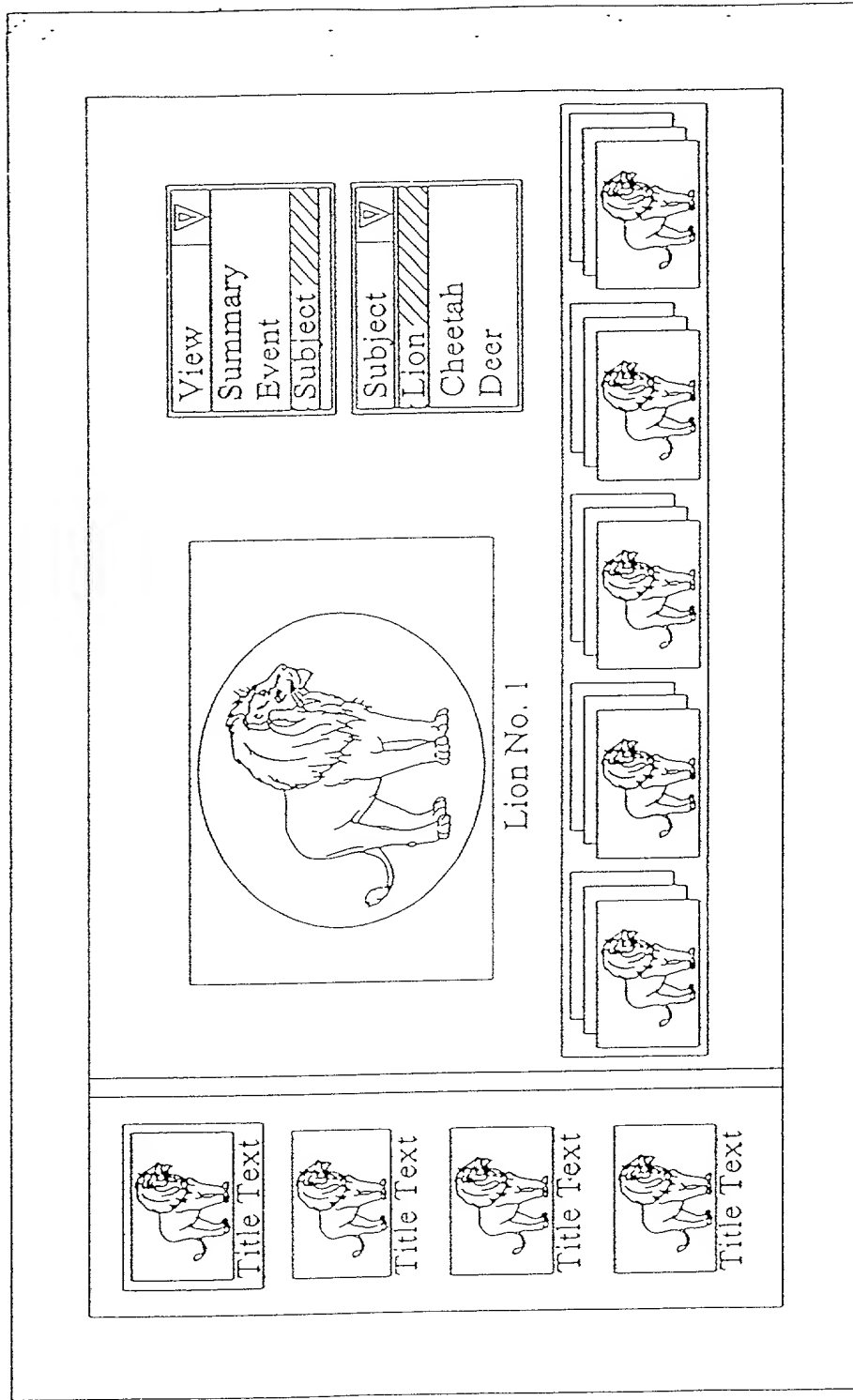


FIG. 12

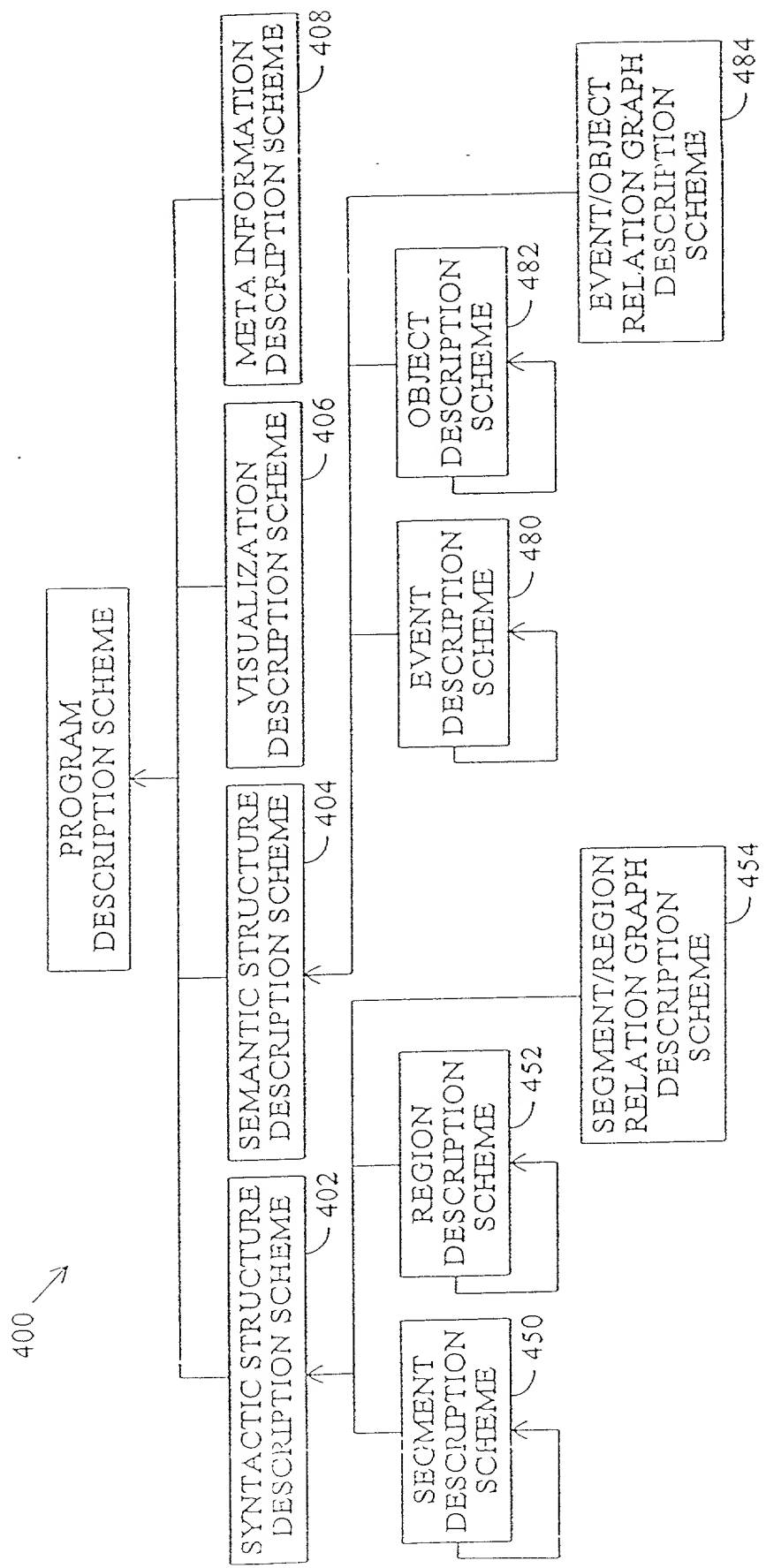


FIG. 13

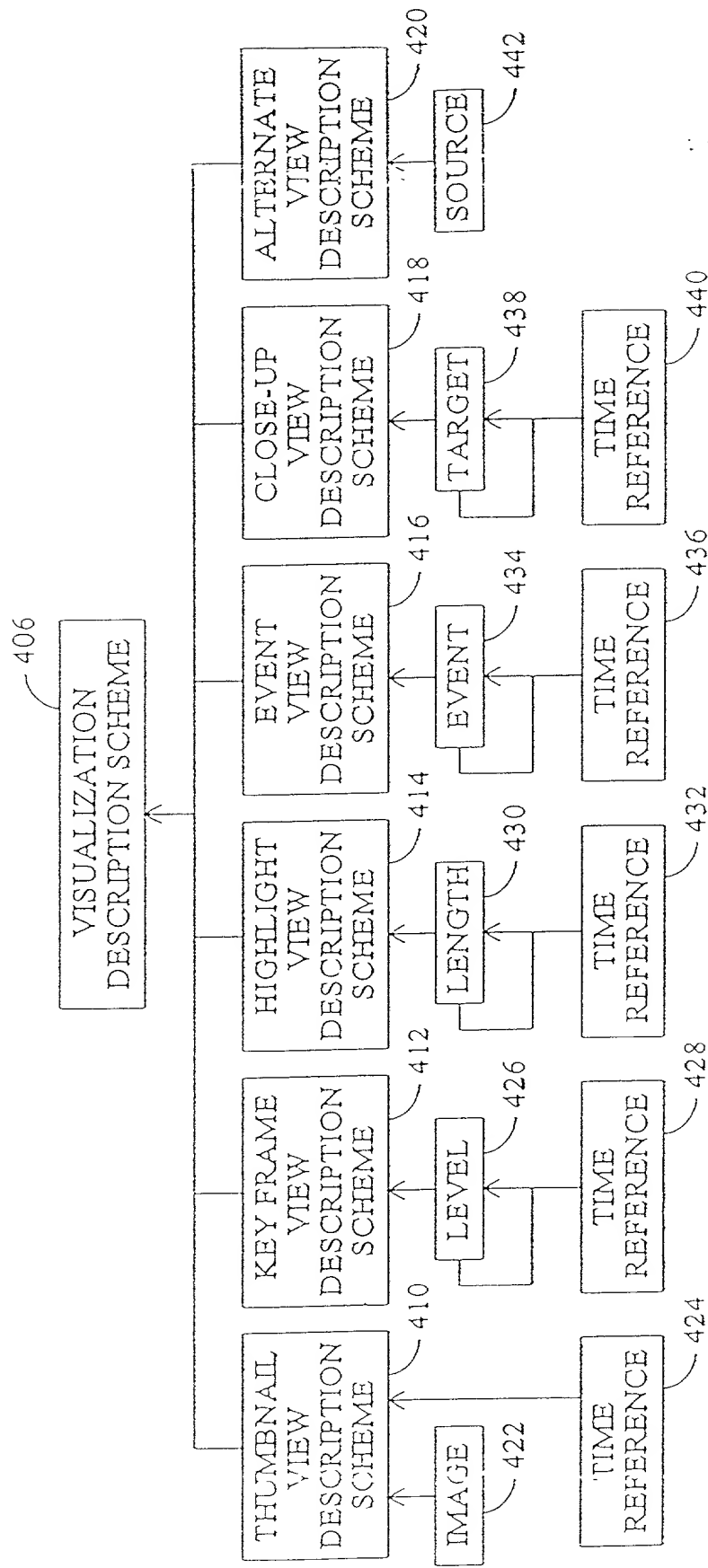


FIG. 14

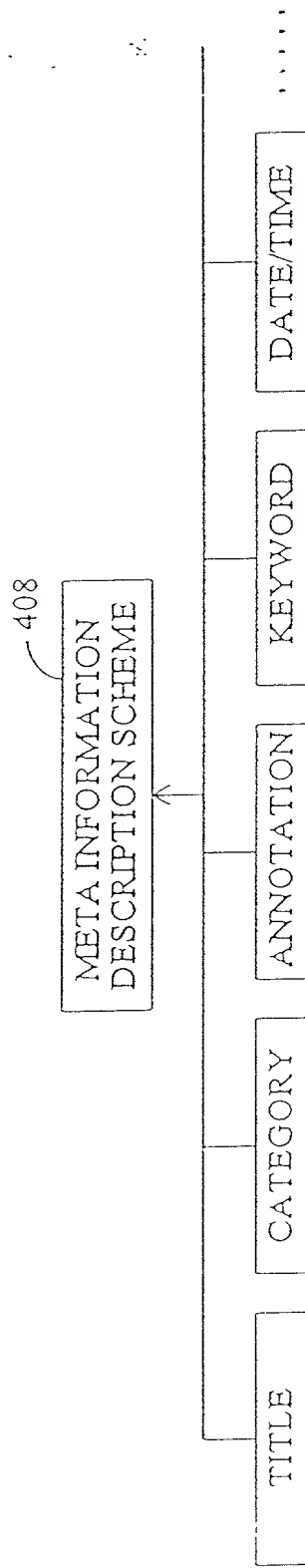


FIG. 15

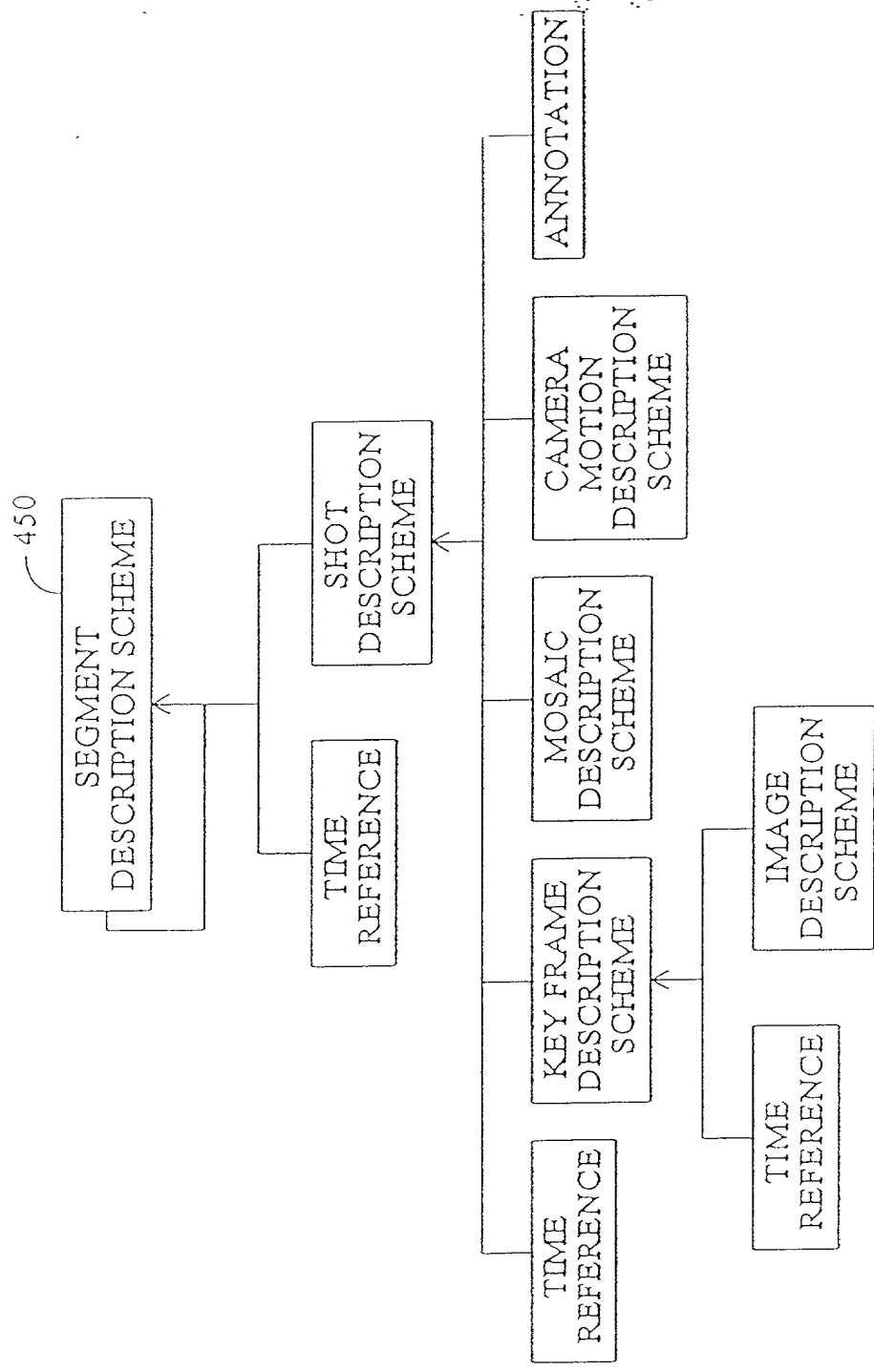


FIG. 16



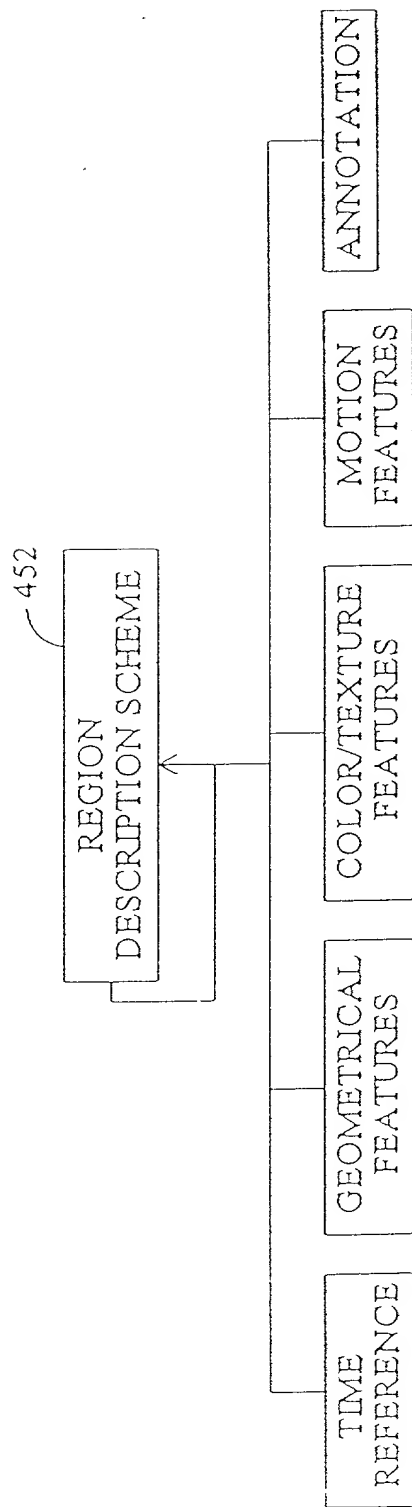


FIG. 17

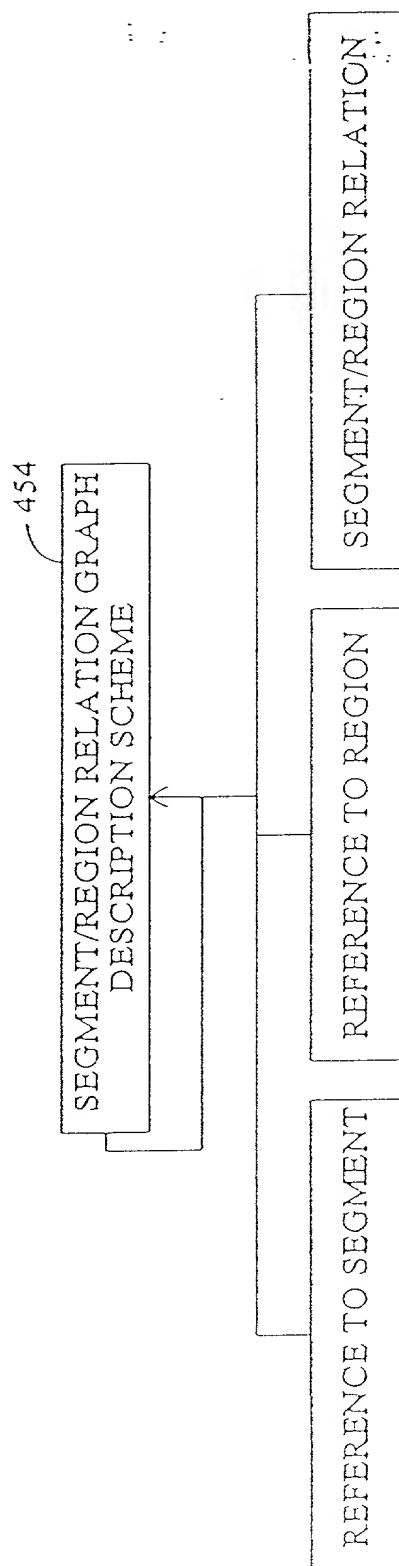


FIG. 18

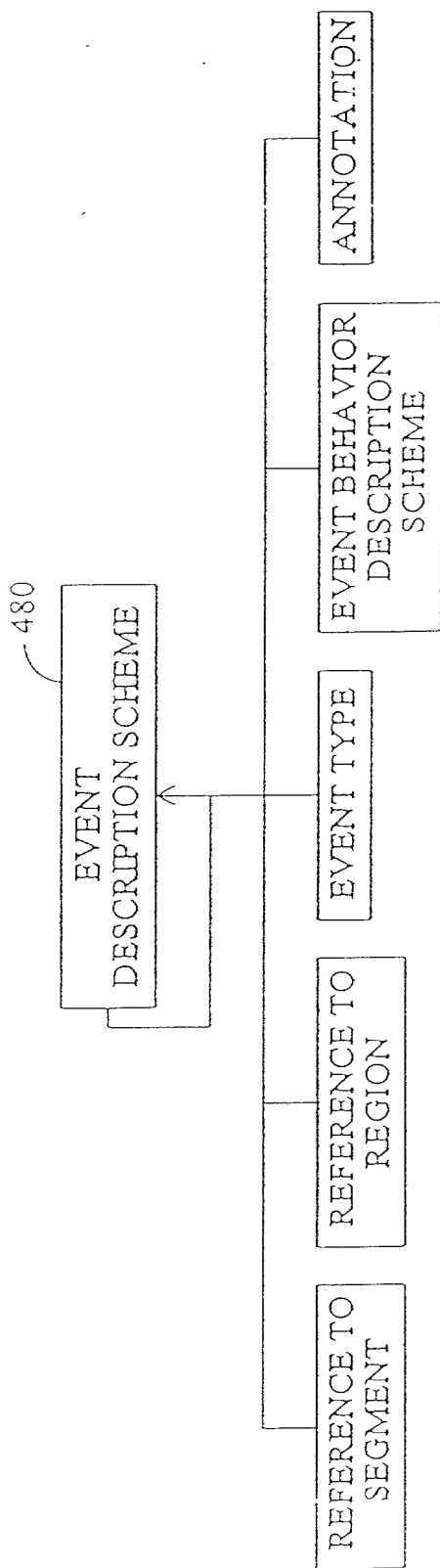


FIG. 19

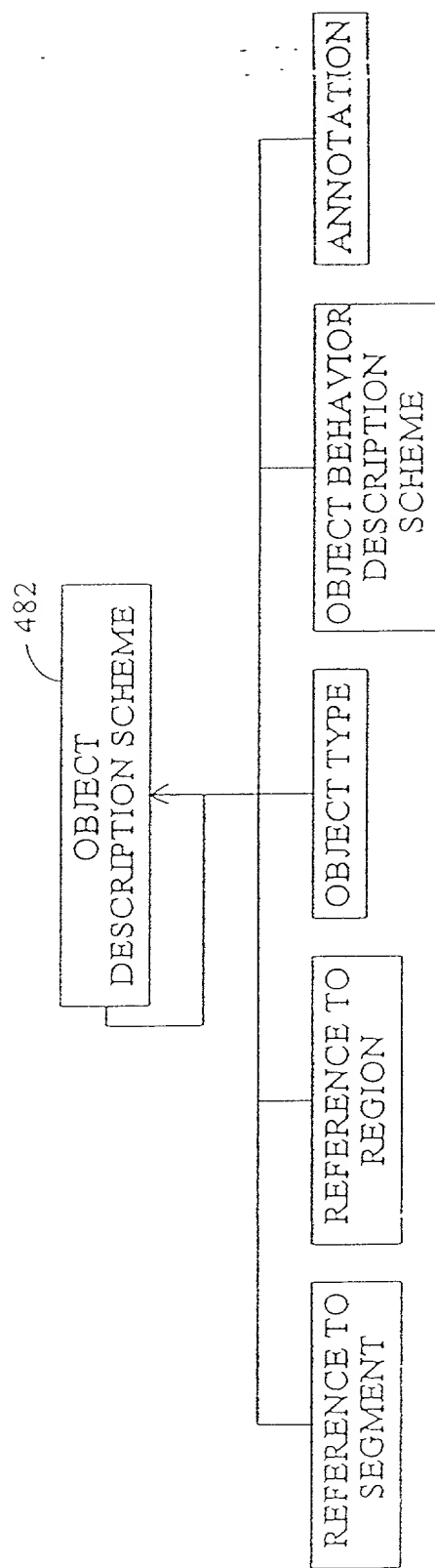


FIG. 20

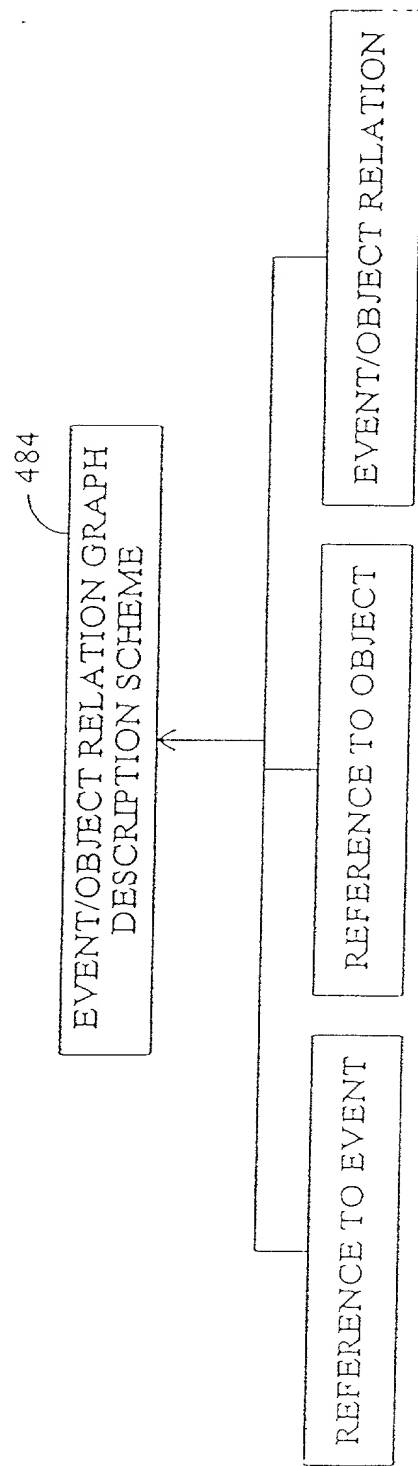


FIG. 21

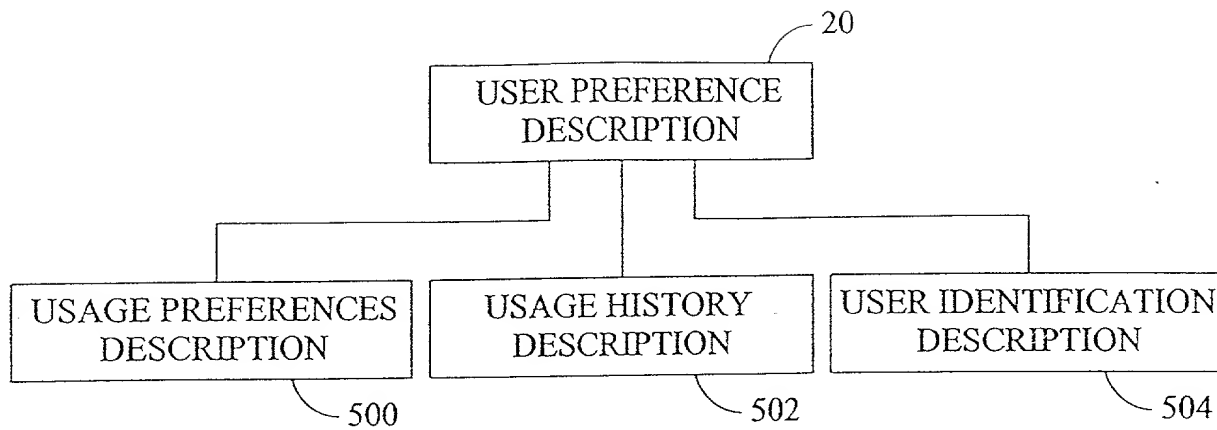


FIG. 22

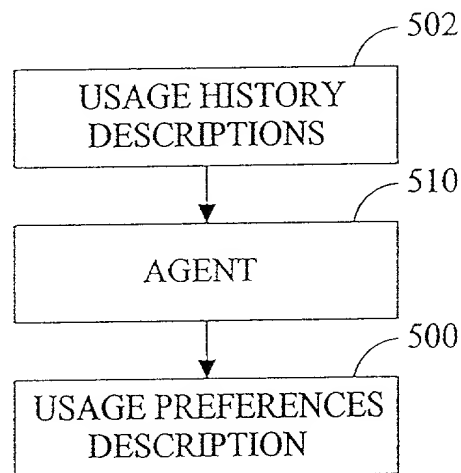


FIG. 23

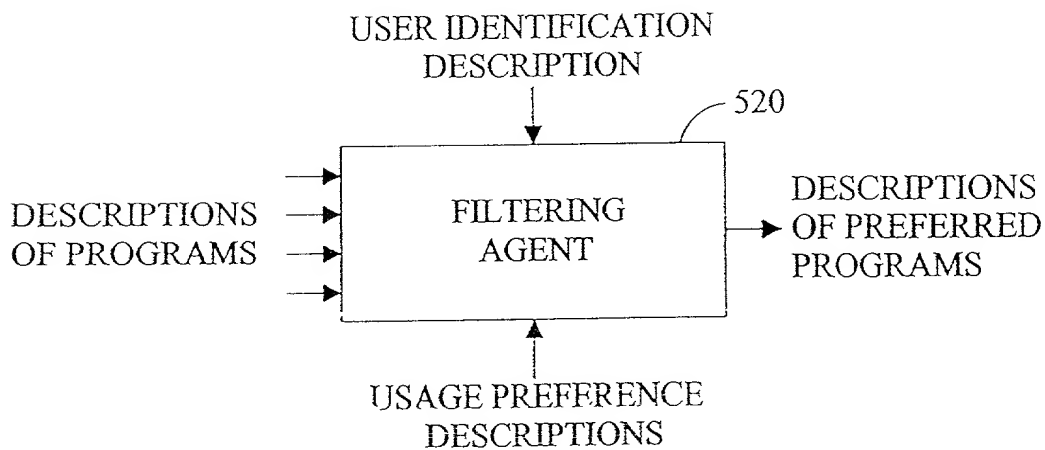


FIG. 24

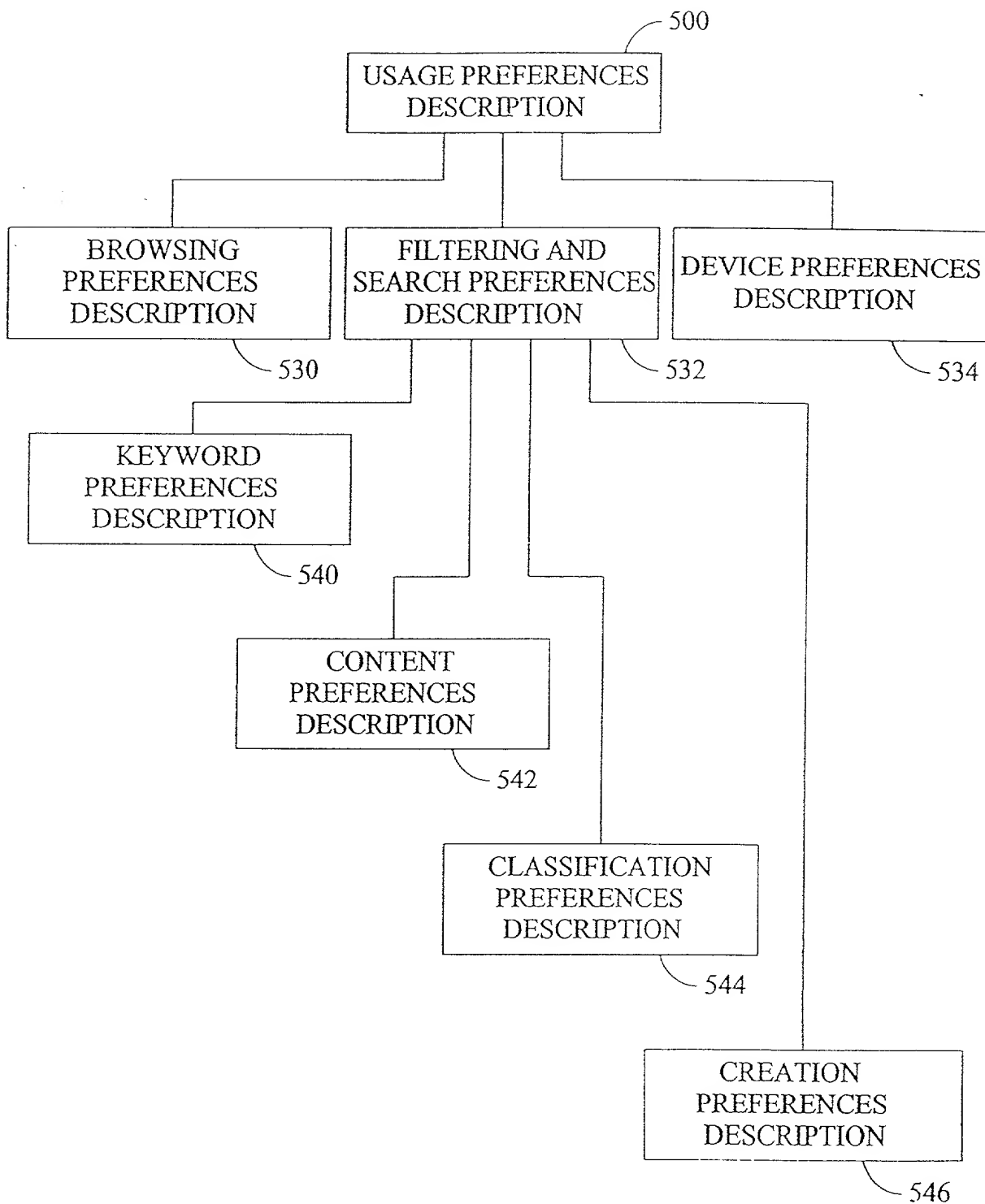


FIG. 25

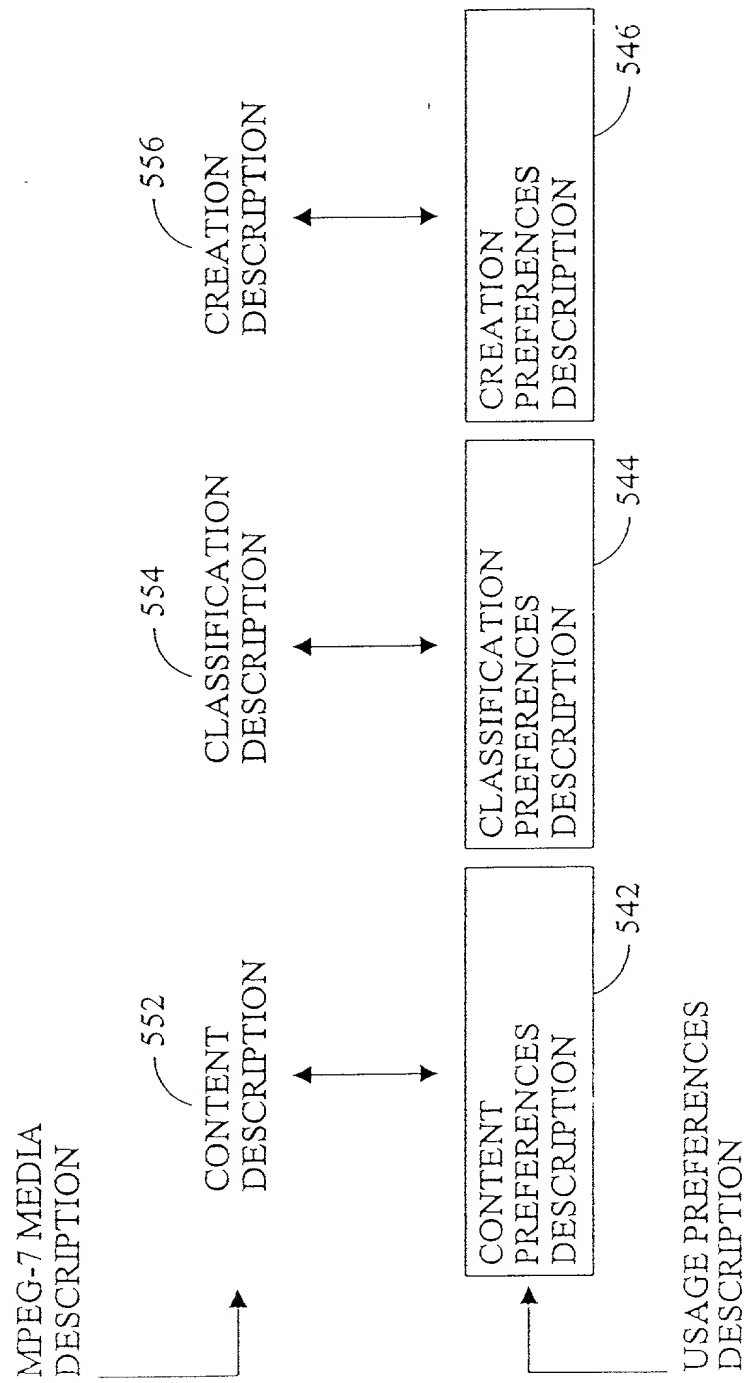


FIG. 26

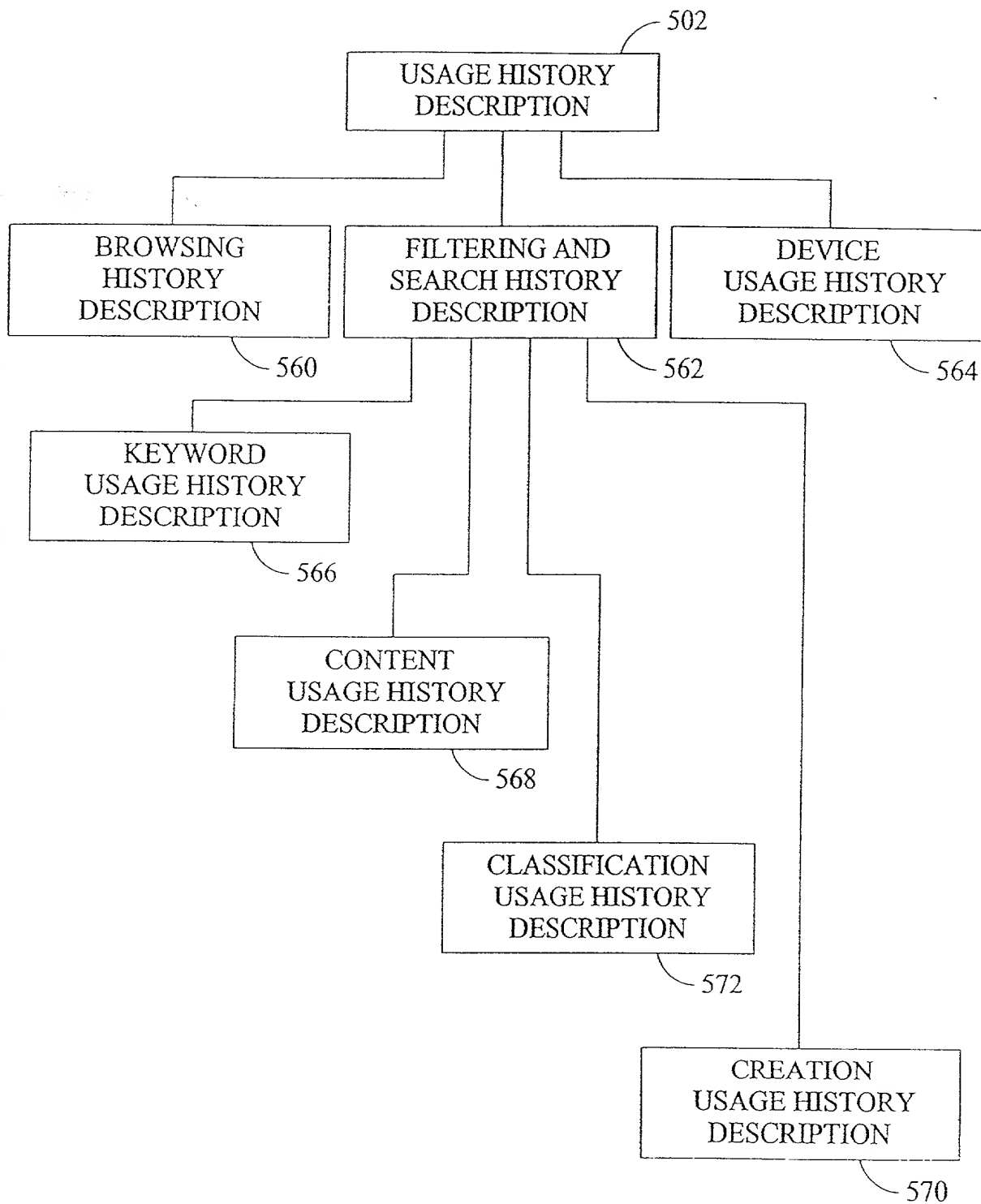


FIG. 27

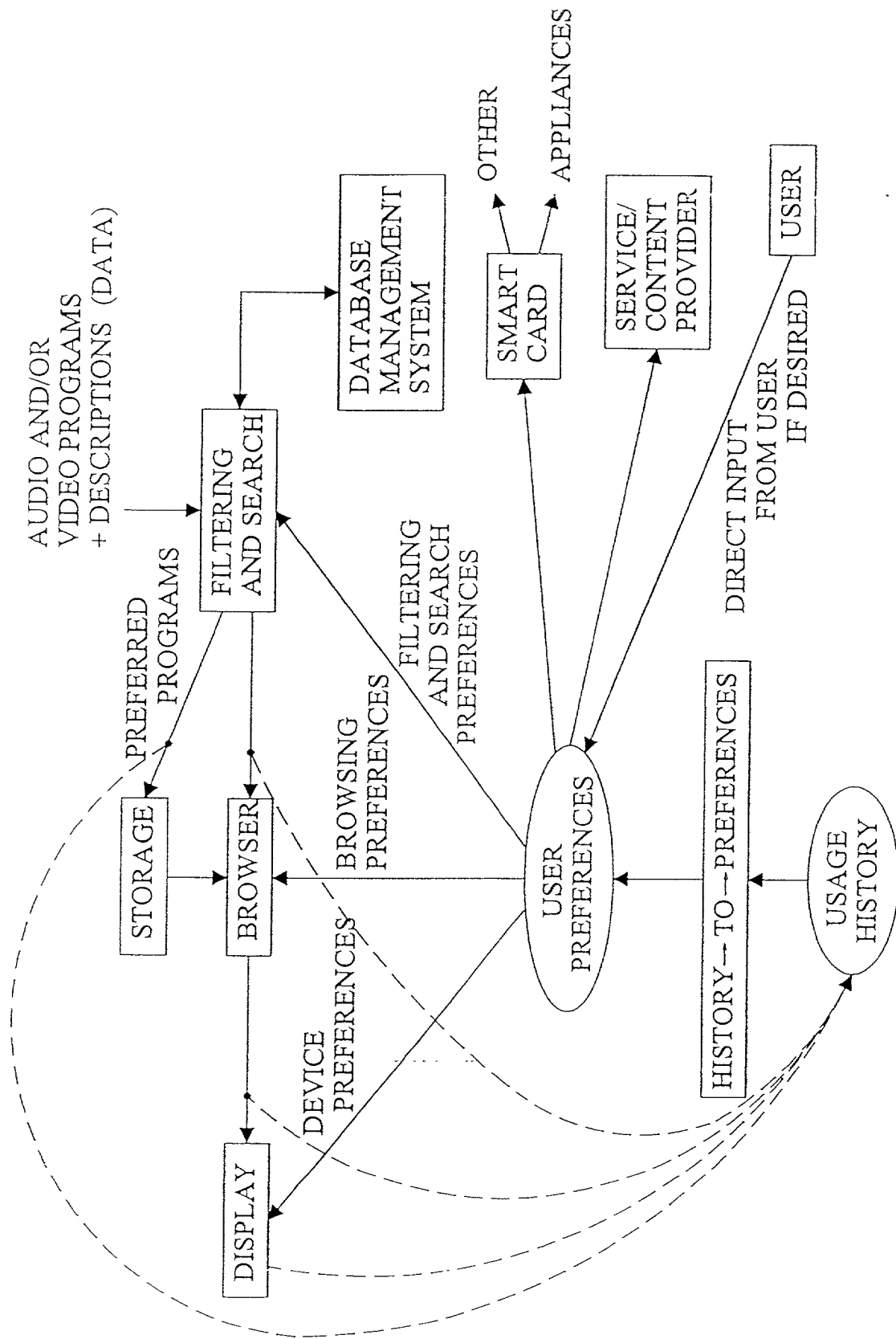


FIG. 28



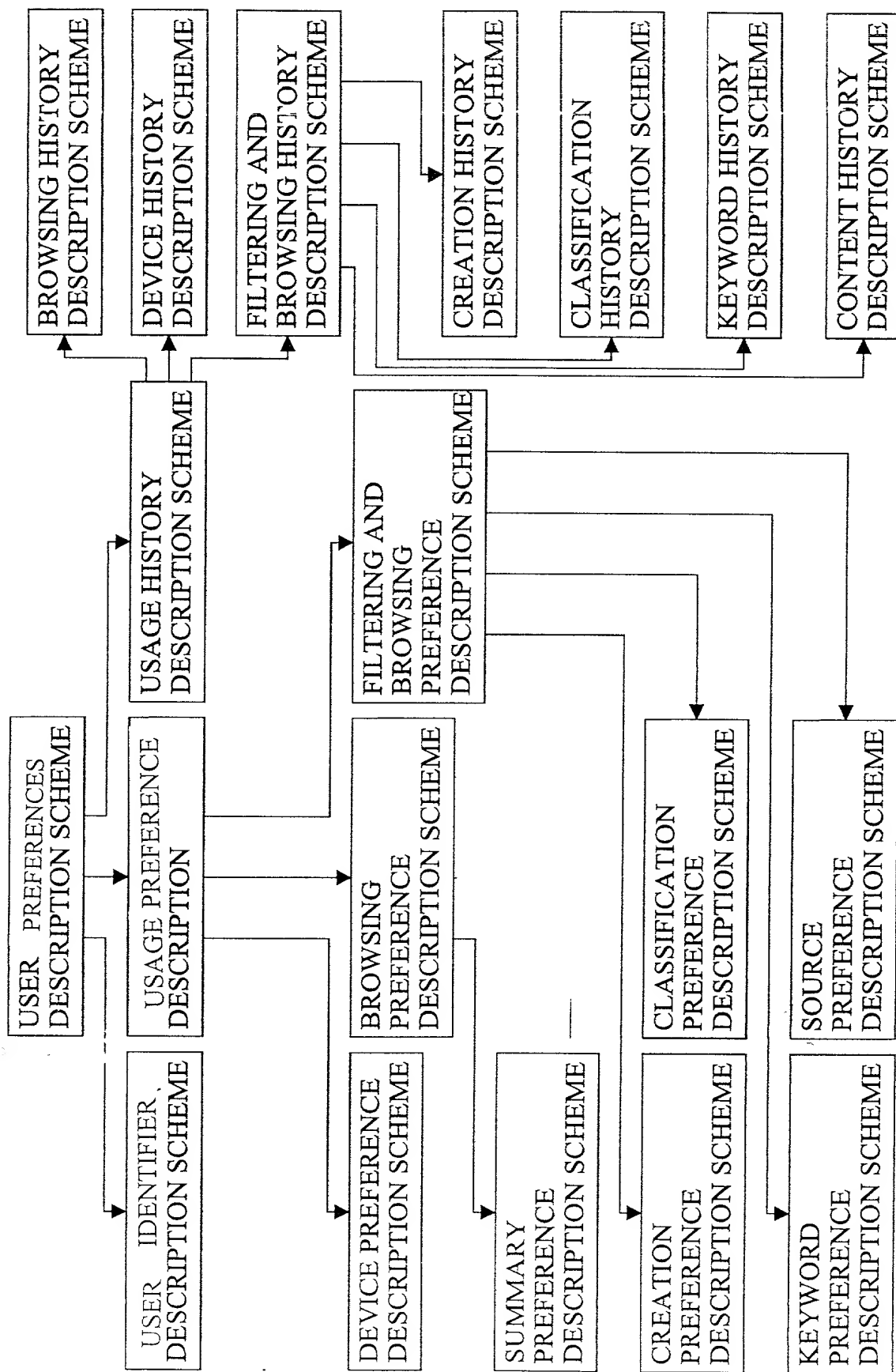


FIG. 29

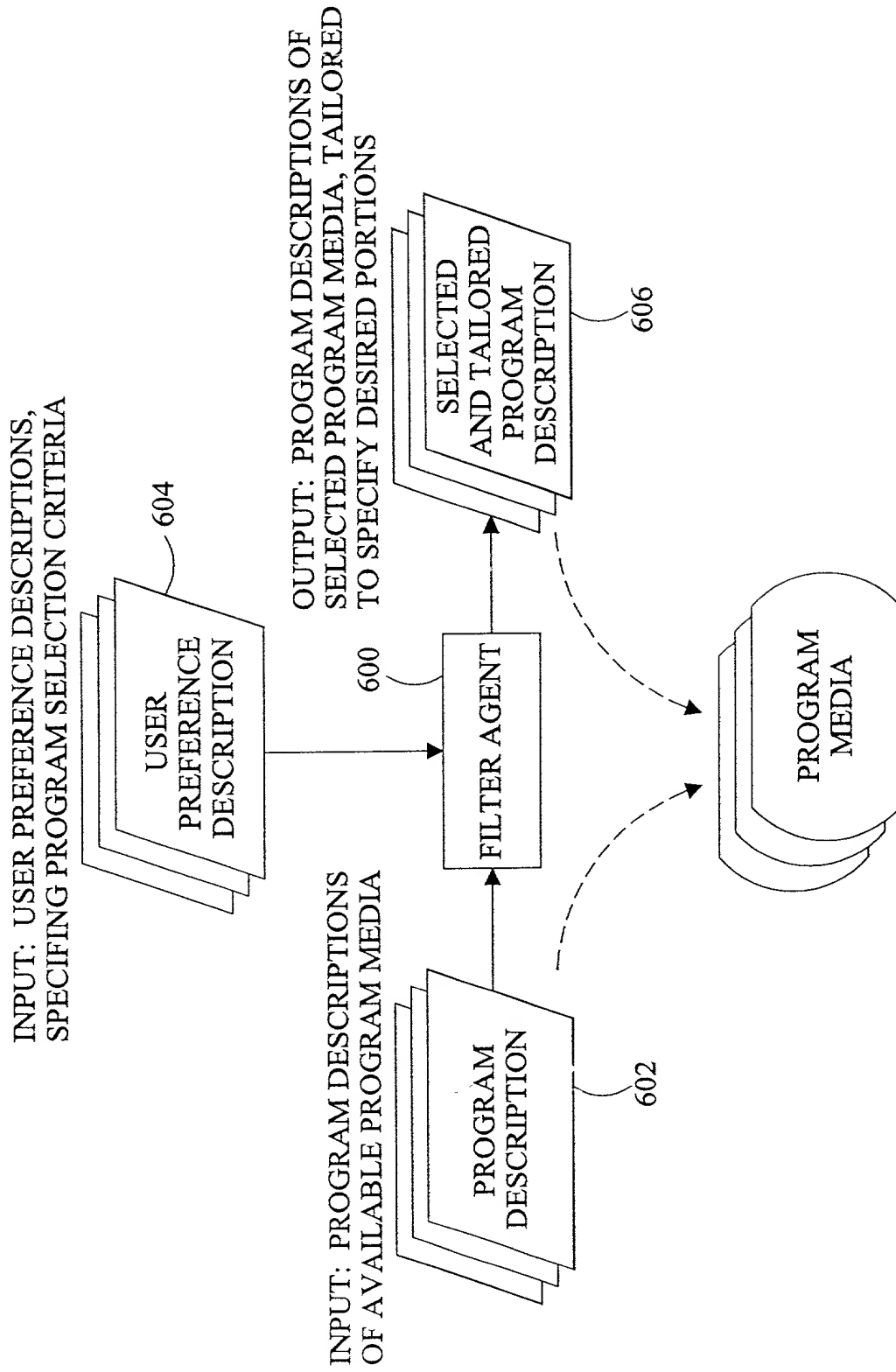
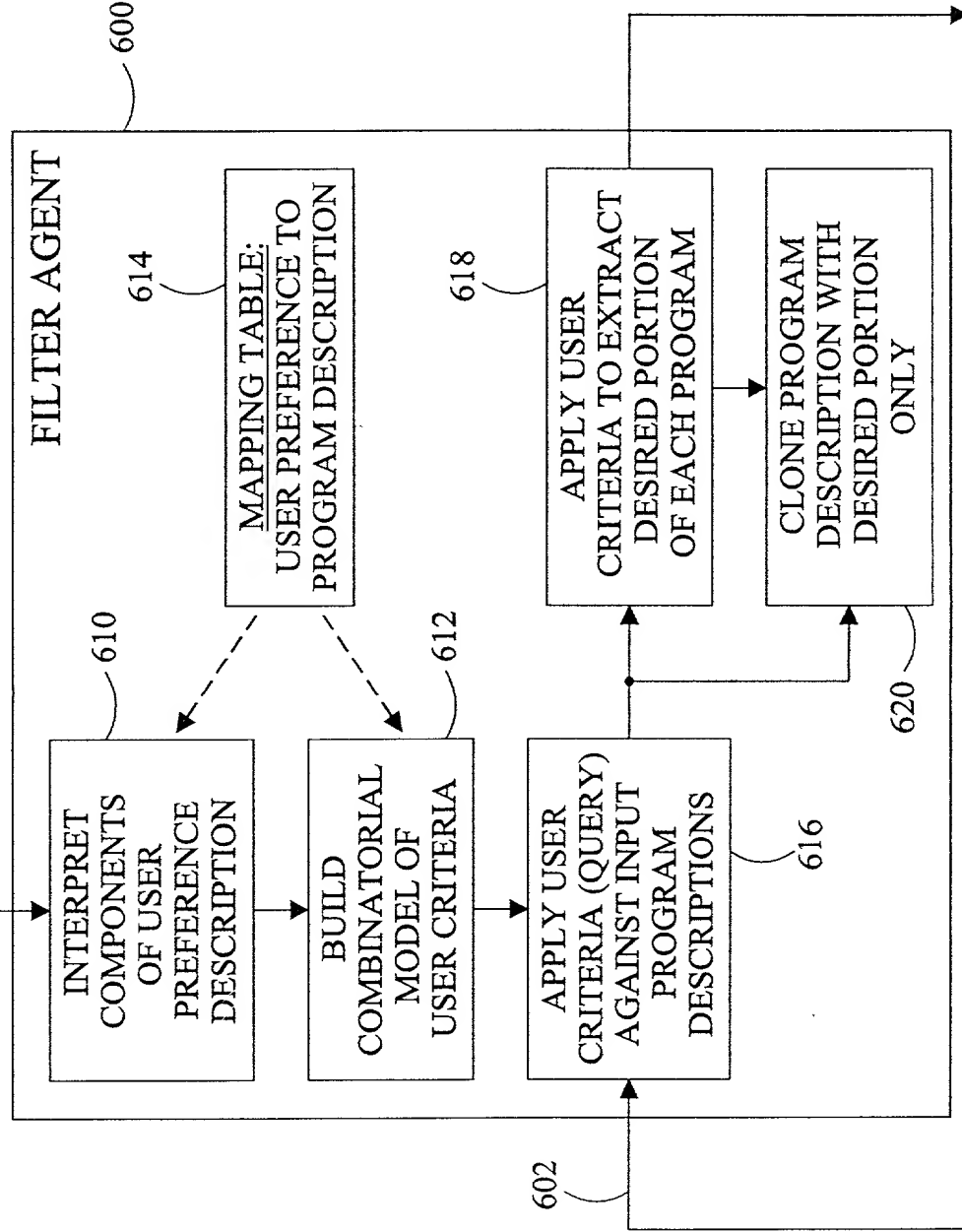


FIG. 30

FIG. 31

INPUT: USER PREFERENCE DESCRIPTIONS, SPECIFYING PROGRAM SELECTION CRITERIA



OUTPUT: PROGRAM DESCRIPTIONS OF SELECTED PROGRAM MEDIA, TAILORED TO SPECIFY DESIRED PORTIONS

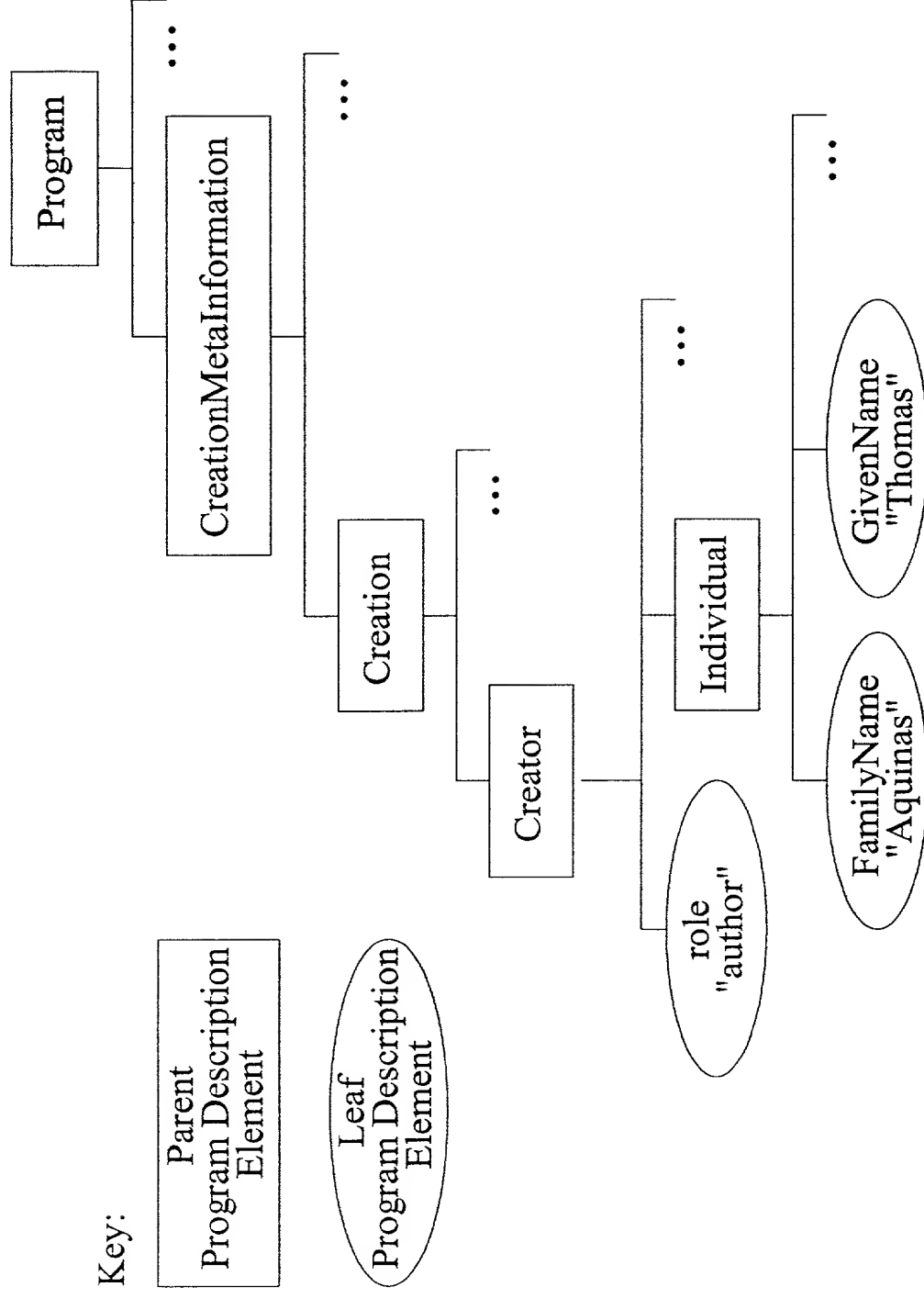


FIG. 32

Individual  
Preference

Preference Name	Preference Value
--------------------	---------------------

FIG. 33

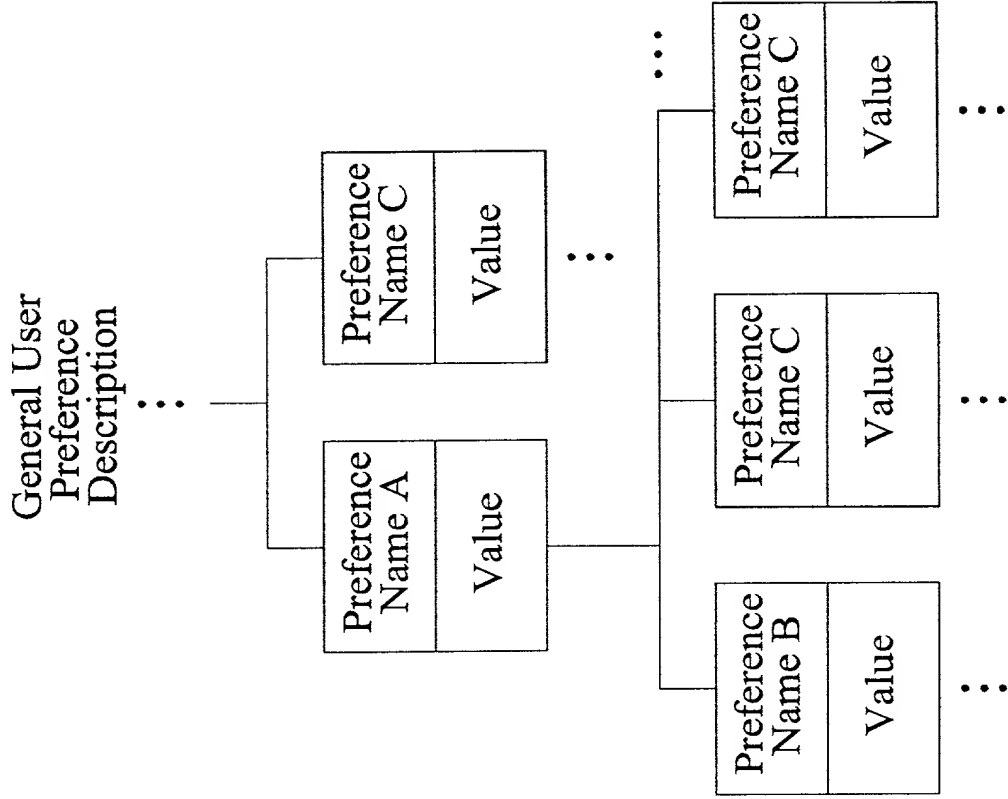
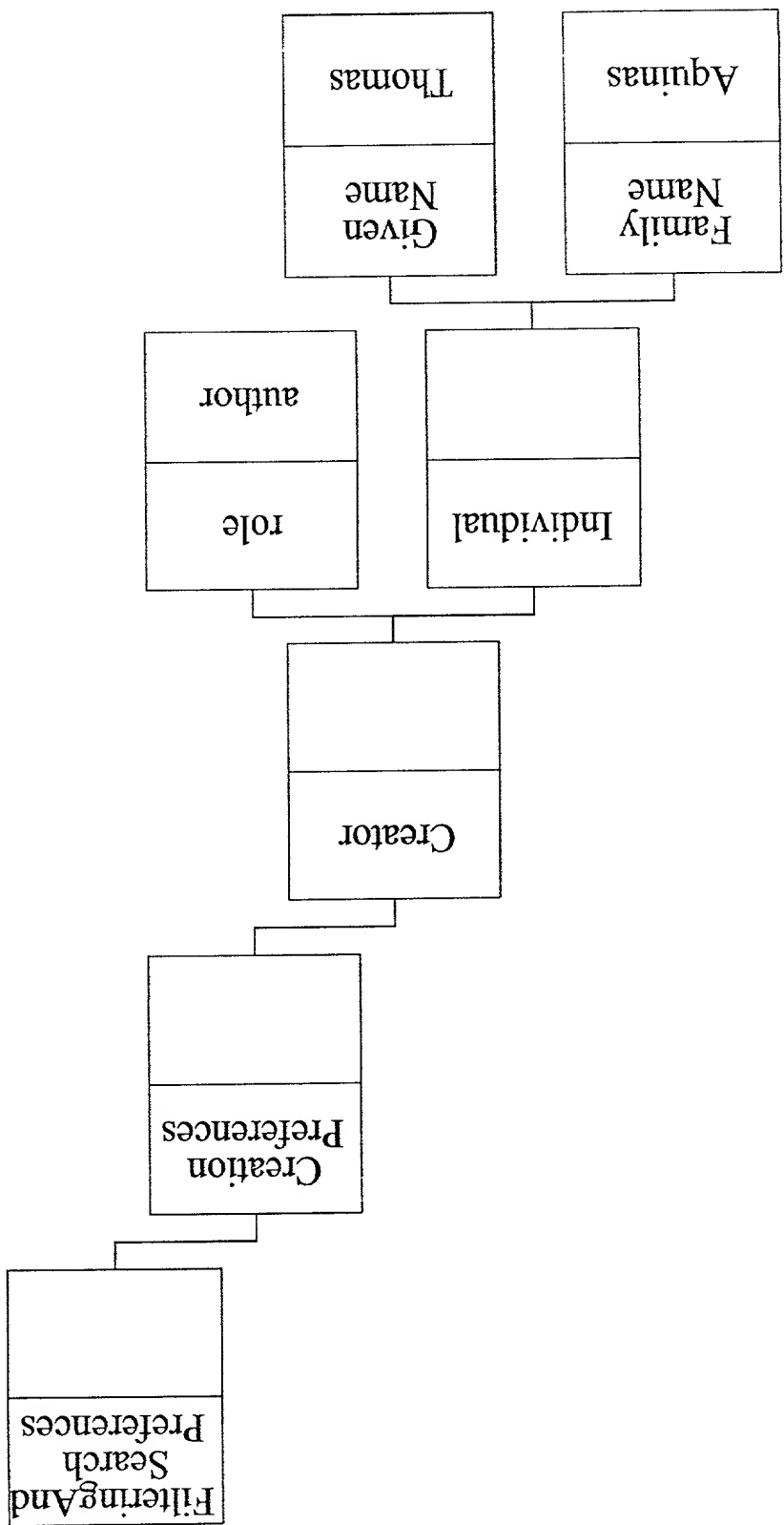


FIG. 34

FIG. 35



<u>Name</u>	<u>Location</u>	<u>TestOp</u>	<u>InterOp</u>	<u>IntraOp</u>
FilteringAndSearch Preferences/ CreationPreferences	/Program /*CreationMetaInformation /*Creation	match-case-insens	AND	AND
Creator/role	/*Creator/role	NULL	CAND	OR
Creator/Individual/ FamilyName	/*Creator/Individual /FamilyName	substring-case-insens	CAND	OR
Creator/Individual/ GivenName	/*Creator/Individual /*GivenName	substring-case-insens	CAND	OR

FIG. 36

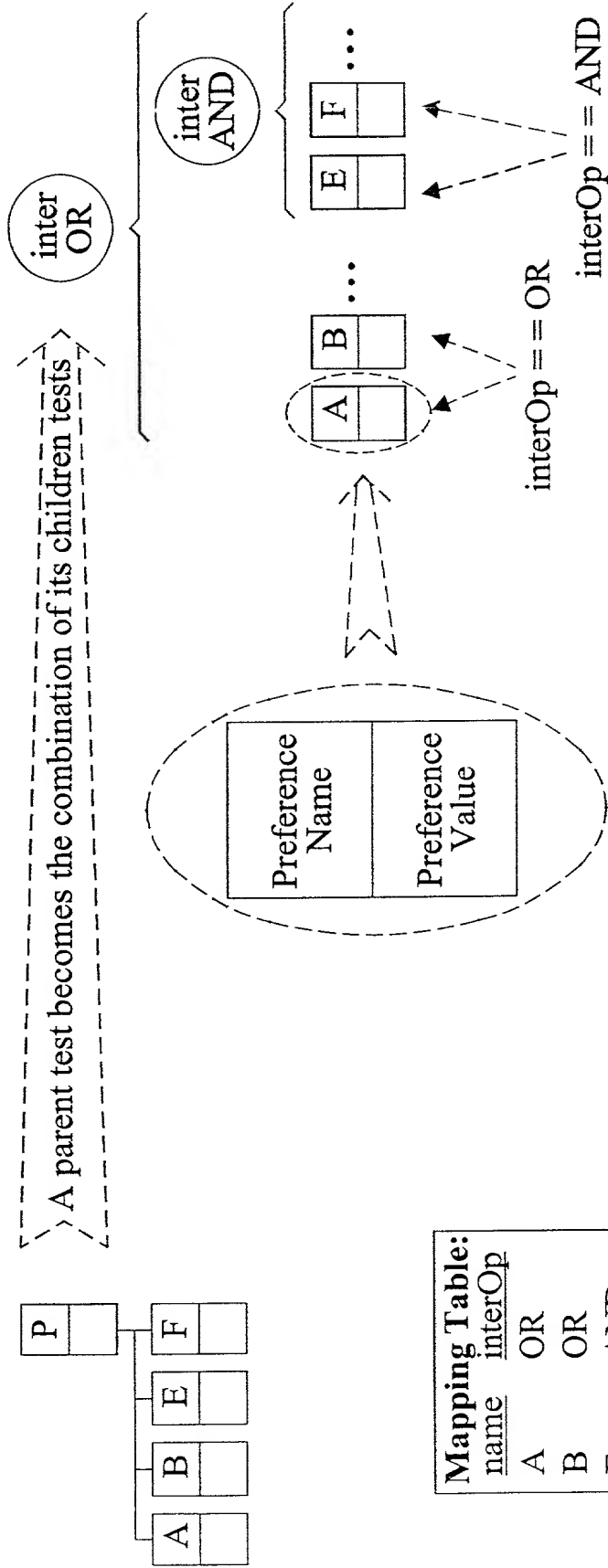
Test Operator	Description
substring-case-insensitive	Test that the preference value string [is a substring of] / [matches] the Program Description element value, [with] / [without] being case sensitive.
substring-case-sensitive	
string-match-case-insensitive	
string-match-case-sensitive	
value-less-than	<p>Test that the Program Description element value converted to a number is [<math>&lt;</math>, <math>&lt;=</math>, <math>&gt;</math>, <math>&gt;=</math>, <math>=</math>, <math>&gt;</math>, <math>&gt;=</math>, <math>&lt;=</math>, <math>&lt;</math>] the preference value converted to number[s].</p> <p>In the case of range tests (<math>&gt;</math>, <math>&lt;</math>, <math>&gt;=</math>, <math>&lt;=</math>), the preference value is assumed to be a pair of comma-delimited numbers.</p> <p>The approximate operator may have a second number describing the rolloff from the target number.</p>
value-less-than-or-equal	
value-greater-than	
value-greater-than-or-equal	
value-equal	
value-greater-than-less-than	
value-greater-than-equal-less-than-equal	
value-approximately	
count-less-than	
count-greater-than	
count-equal	<p>Test that the quantity of Program Description elements is [<math>&lt;</math>, <math>&lt;</math>, <math>&gt;</math>, <math>&gt;=</math>, <math>&gt;</math>, <math>&lt;</math>, <math>&lt;</math>, <math>&lt;</math>] the preference value converted to number[s].</p> <p>In the case of range tests (<math>&gt;</math>, <math>&lt;</math>), the preference value is assumed to be a pair of comma-delimited numbers.</p> <p>The approximate operator may have a second number describing the rolloff from the target number.</p>
count-greater-than-less-than	
count-approximately	

FIG. 37



Combinatorial Operator	Description
AND	The result of this Individual Preference test is boolean ANDed with others. If all the results in this combination are non-zero, the combined result is one, otherwise zero.
OR	The result of this Individual Preference test is boolean ORed with others. If any of the results in this combination are non-zero, the combined result is one, otherwise zero.
CAND	The Individual Preferences in this combination are evaluated form a Constrained common node. If all the results in this combination are non-zero, the combined result is one, otherwise zero.
MAX	The result of this Individual Preference test is combined arithmetically in a Maximum function with others. The combined result is the largest of all the results in this combination.
MIN	The result of this Individual Preference test is combined arithmetically in a Minimum function with others. The combined result is the smallest of all the results in this combination.
PROD	The result of this Individual Preference test is combined arithmetically in a Product function with others. The combined result is the product of all the results in this combination.
SAND	The result of this Individual Preference test is fuzzy ANDed with others. The combined result is the product of all the fuzzy-transformed (mapped to an S-curve profile) results.
SUM	The result of this Individual Preference test is combined arithmetically in a Sum function with others. The combined result is the sum of all the results in this combination. The result may be further bounded to a maximum result value.
FREQ	The result of this Individual Preference test is boolean counted with others, and the sum is normalized. The combined result is the count of all non-zero results, divided by a fixed maximum frequency number. The result may be further bounded to a maximum result value.
RATIO	The result of this Individual Preference test is boolean counted with others, and the sum is normalized by the number of Individual Preference tests in this combination. The combined result is the count of all non-zero results, divided by the count of all results.

FIG. 38



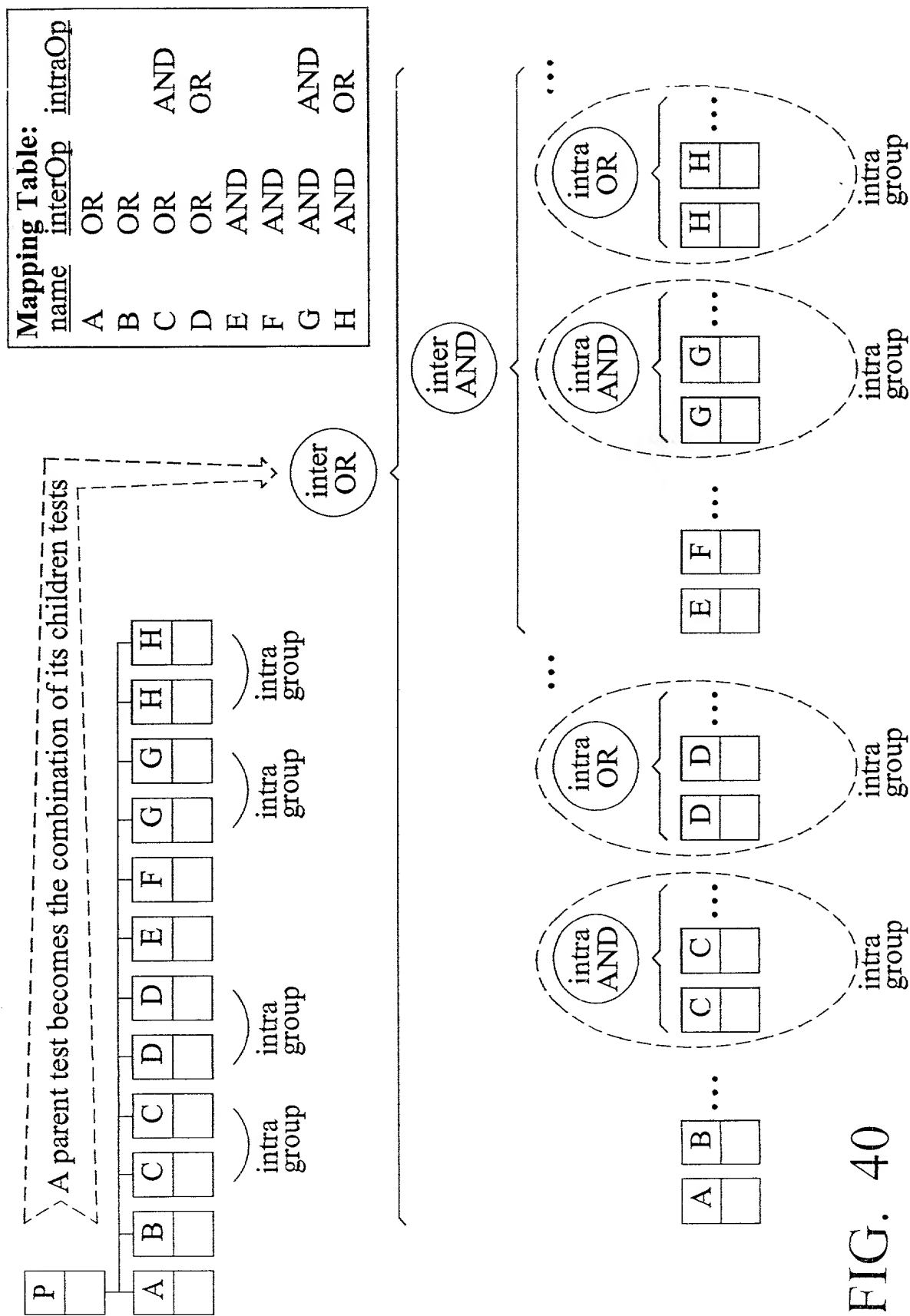
A single leaf Test is composed of:

mapped location  
mapped operation  
query value  
reference point in ProgramDS  
comparison to be performed  
right operand of comparison

For example:

mapped location  
mapped operation  
query value  
/Program/CreationmetaInformation/  
Title/TitleText  
string\_equals  
"Westside Story"

FIG. 39



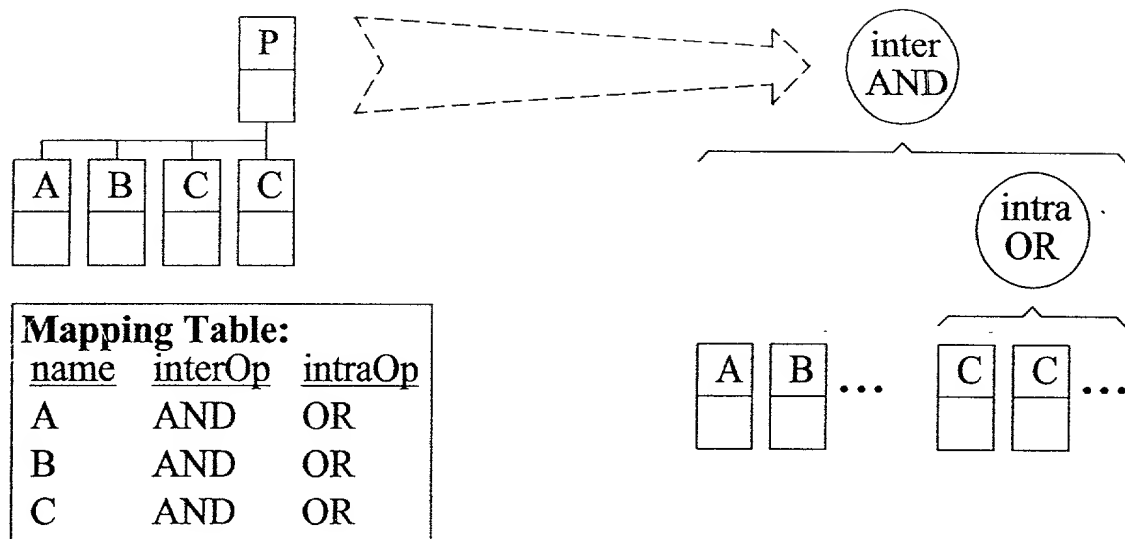


FIG. 41

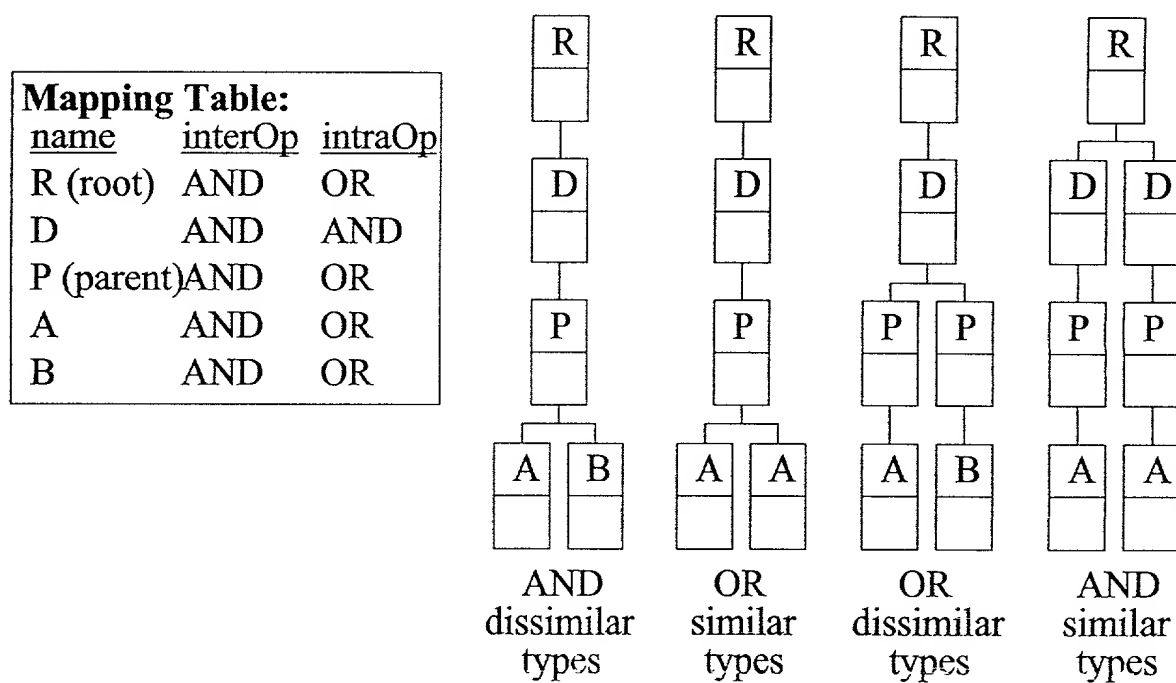
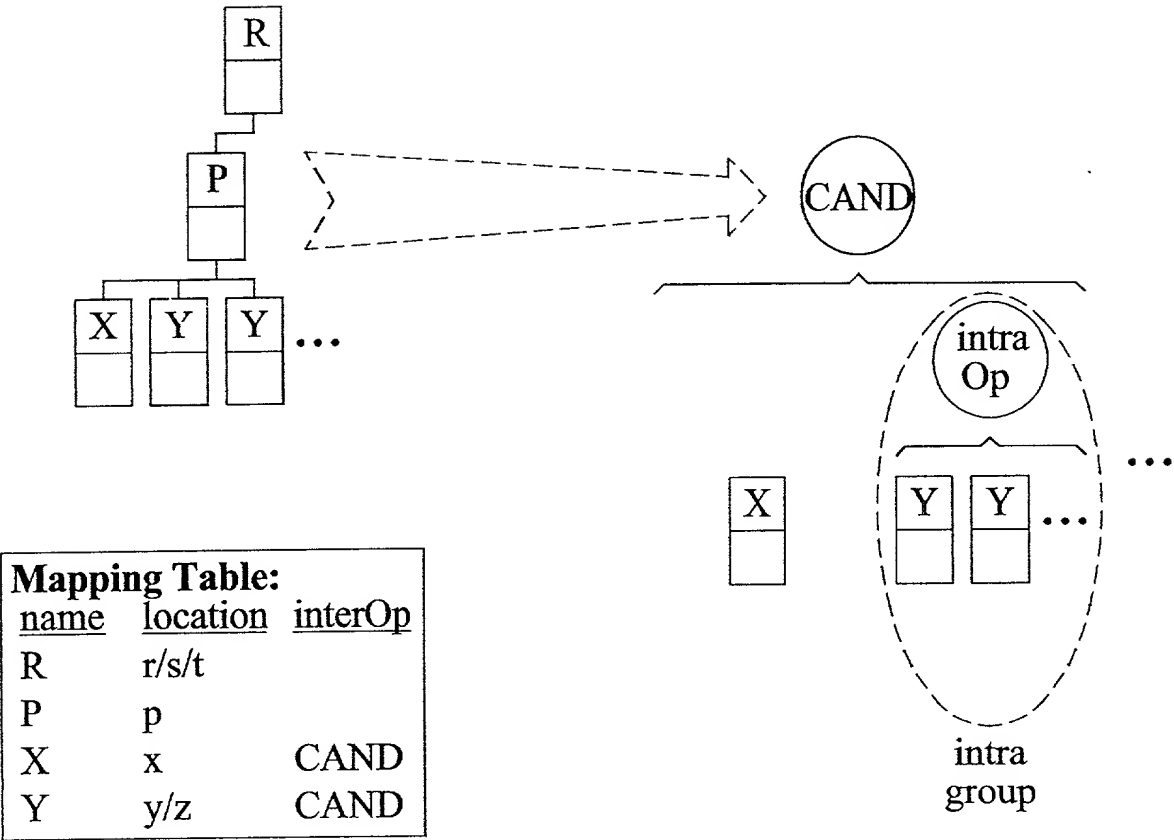


FIG. 42

User Preference Description



Program Description

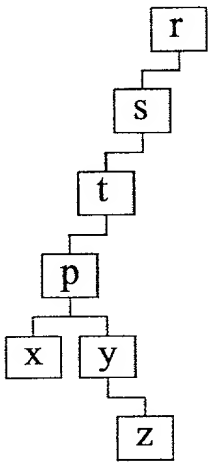


FIG. 43

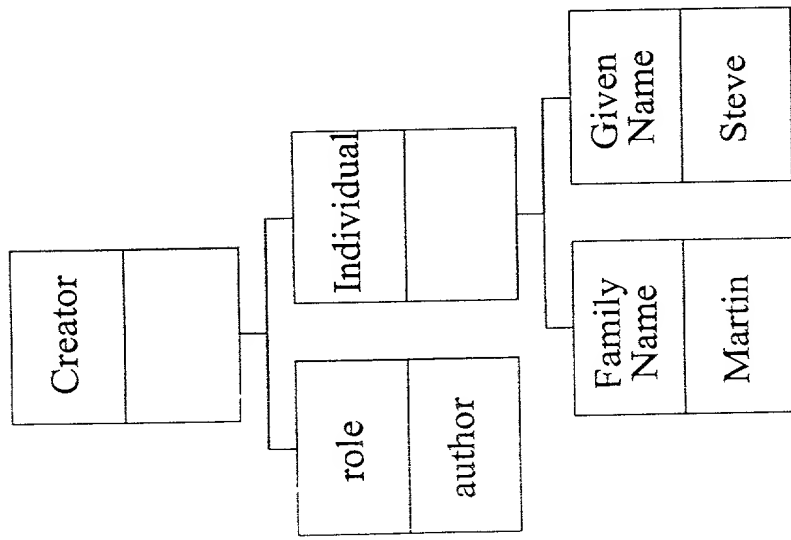
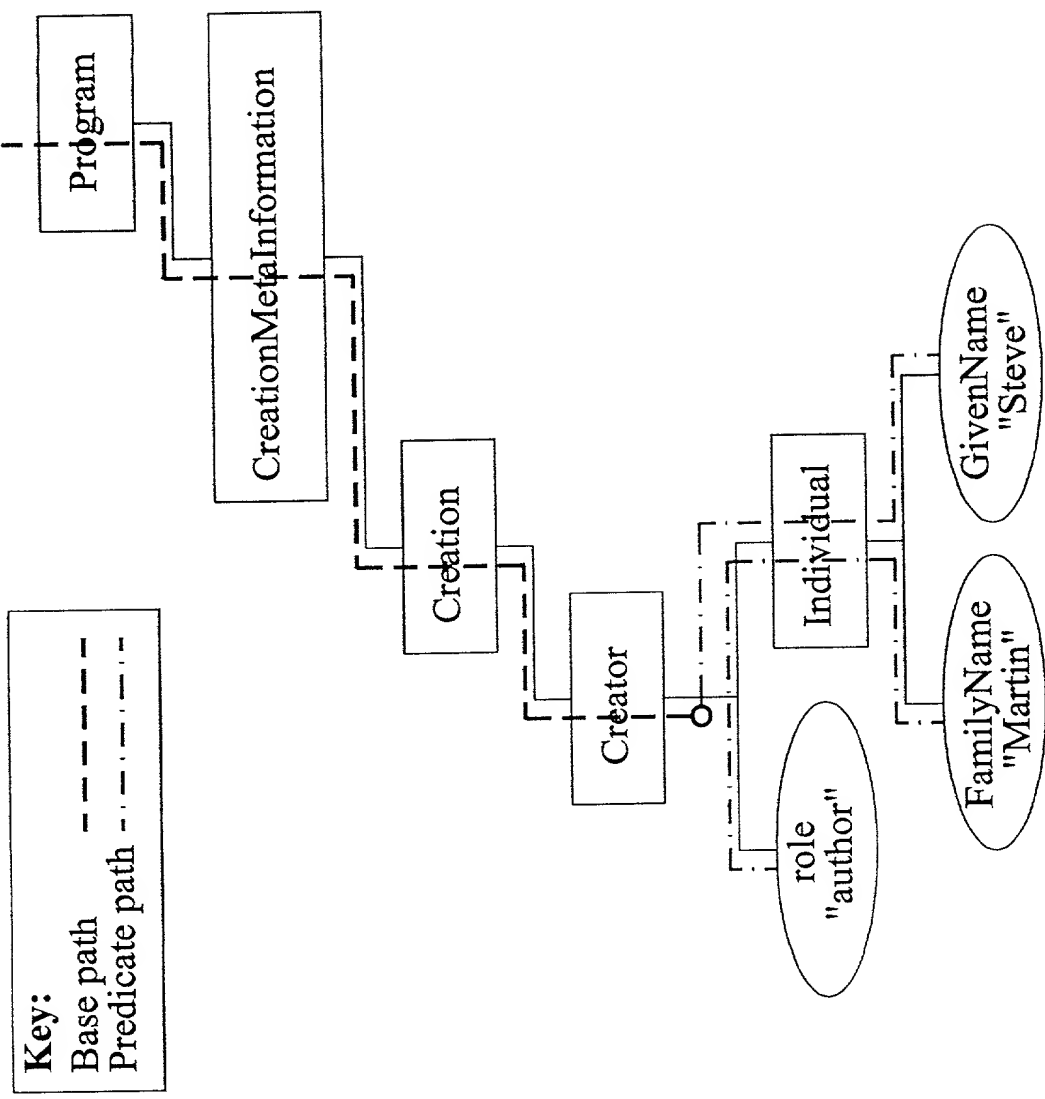


FIG. 44A

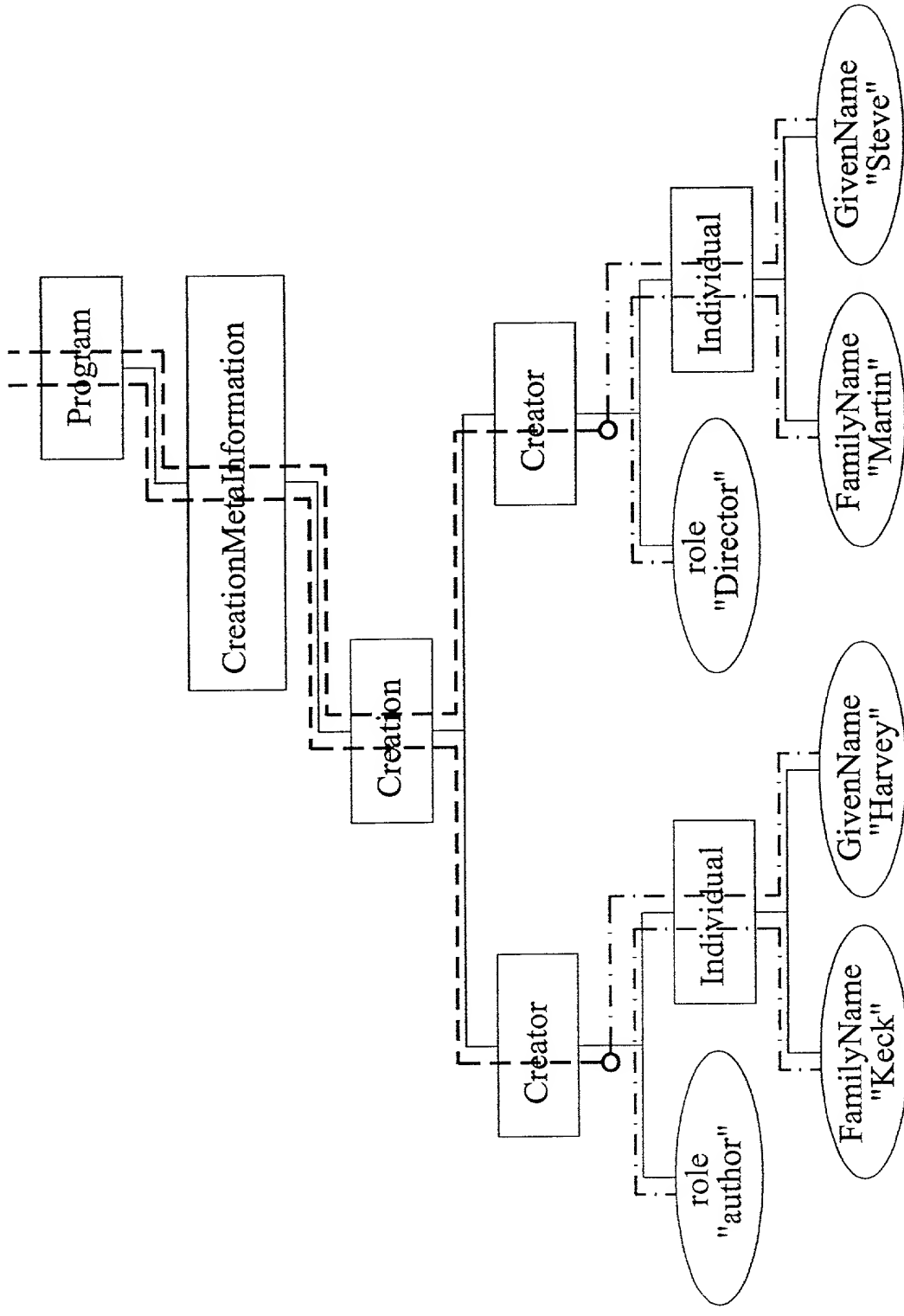


FIG. 44B

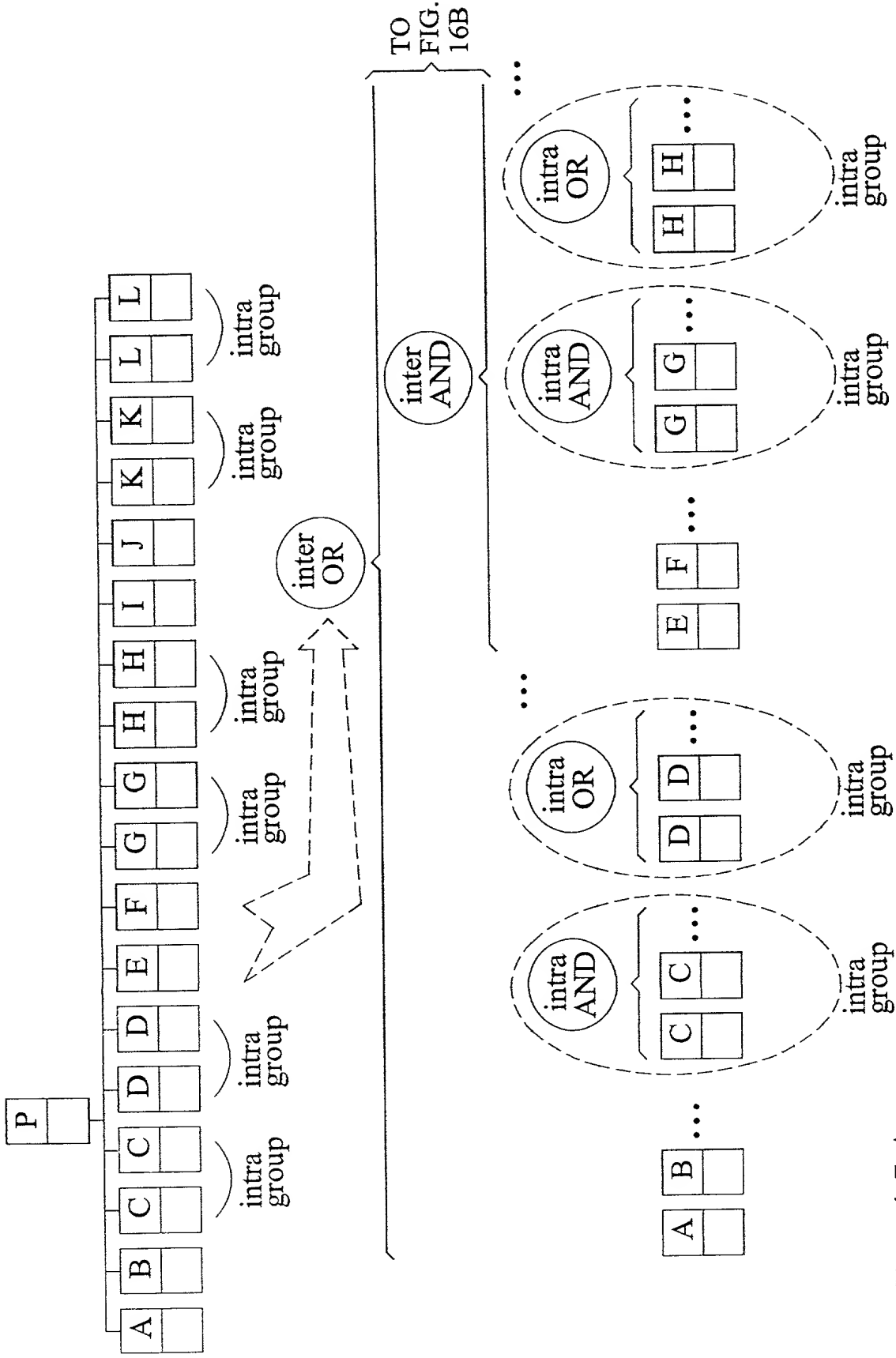
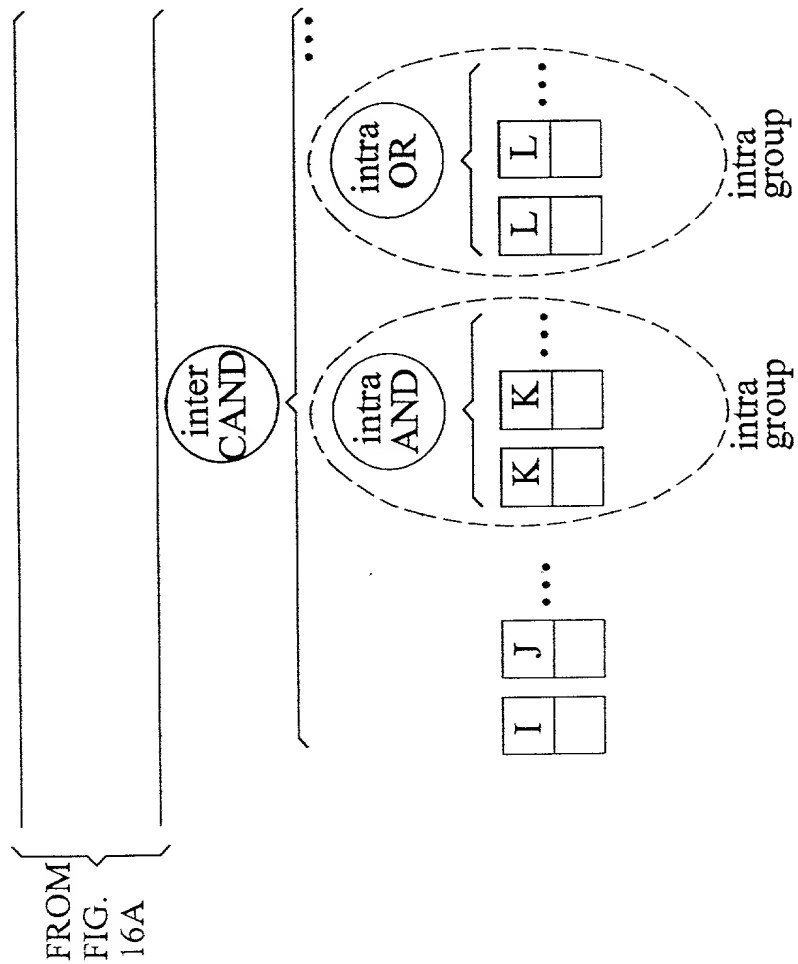


FIG. 45A

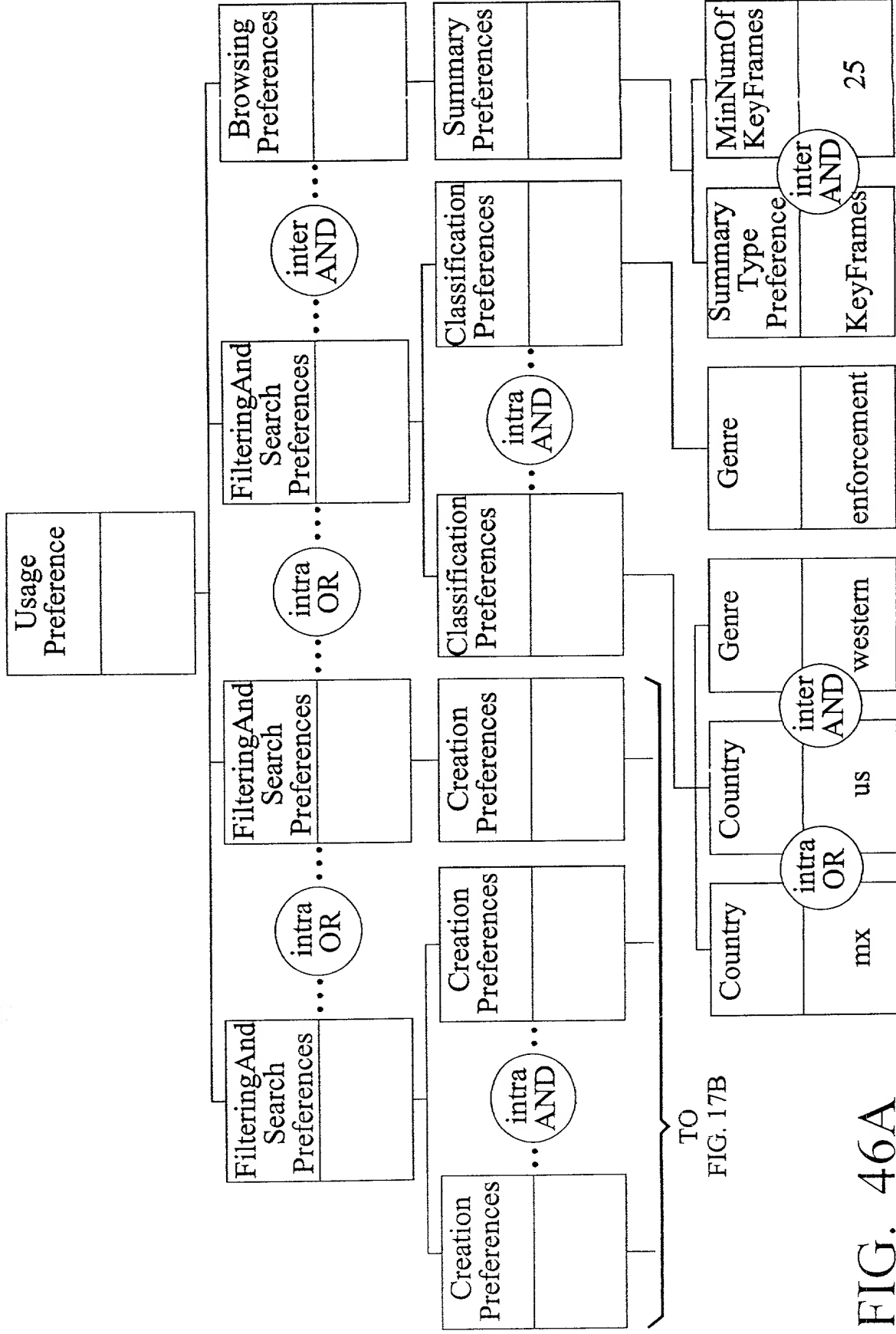




**Mapping Table:**

<u>name</u>	<u>interOp</u>	<u>intraOp</u>
A	OR	
B	OR	
C	OR	AND
D	OR	OR
E	AND	
F	AND	
G	AND	AND
H	AND	OR
E	CAND	
F	CAND	
G	CAND	AND
H	CAND	OR

FIG. 45B



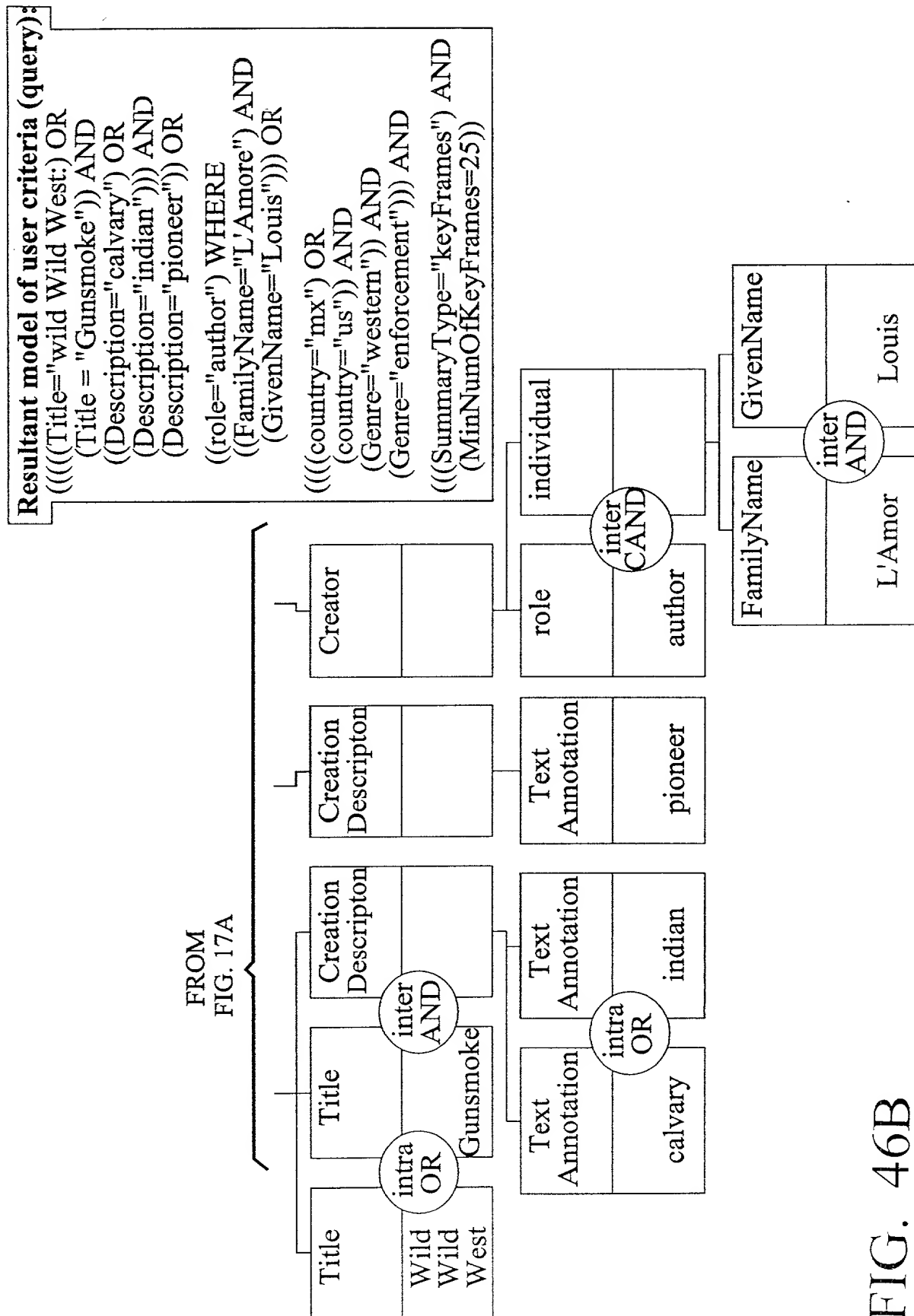


FIG. 46B

<u>Name</u>	<u>Location</u>	<u>TestOp</u> <u>InterOp</u> <u>IntraOp</u>		
Level 0 Preferences				
FilteringAndSearchPreferences	null	NA	NA	OR
BrowsingPreferences	null	NA	NA	OR
Level 1 Preferences				
Children of FilteringAndSearchPreferences				
CreationPreferences	/Program/*CreationMetaInformation /*Creation	NA	AND	AND
ClassificationPreferences	/Program/*CreationMetaInformation /*Classification	NA	AND	AND
SourcePreferences	/Program/*UsageMetaInformation	NA	AND	AND
ClassificationPreferences/Country	/Program/*CreationMetaInformation /*Classification/*Country	STR_ISUB	AND	OR
Children of BrowsingPreferences				
SummaryPreferences	/Program/*Summarization	NA	AND	AND
Level 2 Preferences				
Children of CreationPreferences				
Title	/*Title/TitleText	STR_ISUB	AND	OR
CreationDescription	/*CreationDescription	NA	AND	OR
Creator	/*Creator	NA	AND	OR
CreationLocation	/*CreationLocation	NA	AND	OR
CreationDate	/*CreationDate	NA	AND	OR
CreationMaterial	/*CreationMaterial	NA	AND	OR
CreationLocation/Country	/*CreationLocation/Country	STR_ISUB	AND	OR
Children of ClassificationPreferences				
Language	/*Language	STR_ISUB	AND	OR
Genre	/*Genre	STR_ISUB	AND	OR
PackageType	/*PackageType	STR_ISUB	AND	OR

FIG. 47A

Name	Location	TestOp InterOp IntraOp			
Children of SourcePreferences					
PublicationType	/*Publication/PublicationType	STR_ISUB	AND	NA	
Children of SummaryPreferences					
SummaryTypePreference	/*HierarchicalSummary/%summaryType	STR_ISUB	AND	OR	
SummaryName	/*HierarchicalSummary/%name	STR_ISUB	AND	OR	
NumOfKeyFrames	/*HierarchicalSummary/*HighlightLevel %numberOfKeyFrames	VAL_EQ	AND	OR	
MinNumOfKeyframes	/*HierarchicalSummary/*HighlightLevel %numberOfKeyFrames	VAL_GTE	AND	OR	
MaxNumOfKeyframes	/*HierarchicalSummary/*HighlightLevel %numberOfKeyFrames	VAL_LTE	AND	OR	
SmmryDuration	/*HierarchicalSummary/*HighlightLevel /Duration	VAL_EQ	AND	OR	
MinSummaryDuration	/*HierarchicalSummary/*HighlightLevel /Duration	VAL_GTE	AND	OR	
MaxSummaryDuration	/*HierarchicalSummary/*HighlightLevel /Duration	VAL_LTE	AND	OR	
Level 3 Preferences					
Children of CreationDescription					
Who	/Who	STR_ISUB	AND	OR	
TextAnnotation	/TextAnnotation	STR_ISUB	AND	OR	
Children of Creator					
role	/role	STR_IEQ	CAND	NA	
Children of Creator, RealPerson					
Individual	/Individual	NA	AND	OR	
QuasiPerson	/QuasiPerson	NA	AND	OR	
Children of CreationLocation					

FIG. 47B

PlaceName	/PlaceName	STR	ISUB	AND	OR
PlaceRole	/PlaceRole	STR	ISUB	AND	NA
Planet	/Planet	STR	ISUB	AND	NA
GPSCoordinates	/GPSCoordinates	STR	ISUB	AND	NA
Region	/Region	STR	ISUB	AND	NA
PostingIdentifier	/PostingIdentifier	STR	ISUB	AND	NA
AdministrativeUnit	/AdministrativeUnit	STR	ISUB	AND	NA
PostalAddress	/PostalAddress	STR	ISUB	AND	NA
InternalCoordinates	/InternalCoordinates	STR	ISUB	AND	NA
<i>Children of CreationMaterial</i>					
device_instrument	/device_instrument	STR	ISUB	AND	NA
device_setting	/device_setting	STR	ISUB	AND	NA
<b>Level 4 Preferences</b>					
<i>Children of Individual, ContactPerson</i>					
FamilyName	/FamilyName	STR	ISUB	CAND	NA
GivenName	/*GivenName	STR	ISUB	CAND	OR
SecondFamilyName	/*SecondFamilyName	STR	ISUB	CAND	OR
Initial	/*Initial	STR	ISUB	CAND	OR
ProfessionalName	/*ProfessionalName	STR	ISUB	CAND	OR
<i>Children of QuasiPerson</i>					
CharacterName	/*CharacterName	STR	ISUB	CAND	OR
RealPerson	/*RealPerson	NA		CAND	OR
<i>Children of Organization</i>					
OrganizationName	/OrganizationName	STR	ISUB	CAND	NA
ContactPerson	/*ContactPerson	NA		CAND	OR
Address	/*Address	NA		CAND	OR
<b>Preference Types</b>					
FilteringAndSearchPreferenceType	/*FilteringAndSearchPreferenceType	NA		NA	OR
BrowsingPreferenceType	/*BrowsingPreferenceType	NA		NA	OR

FIG. 47C

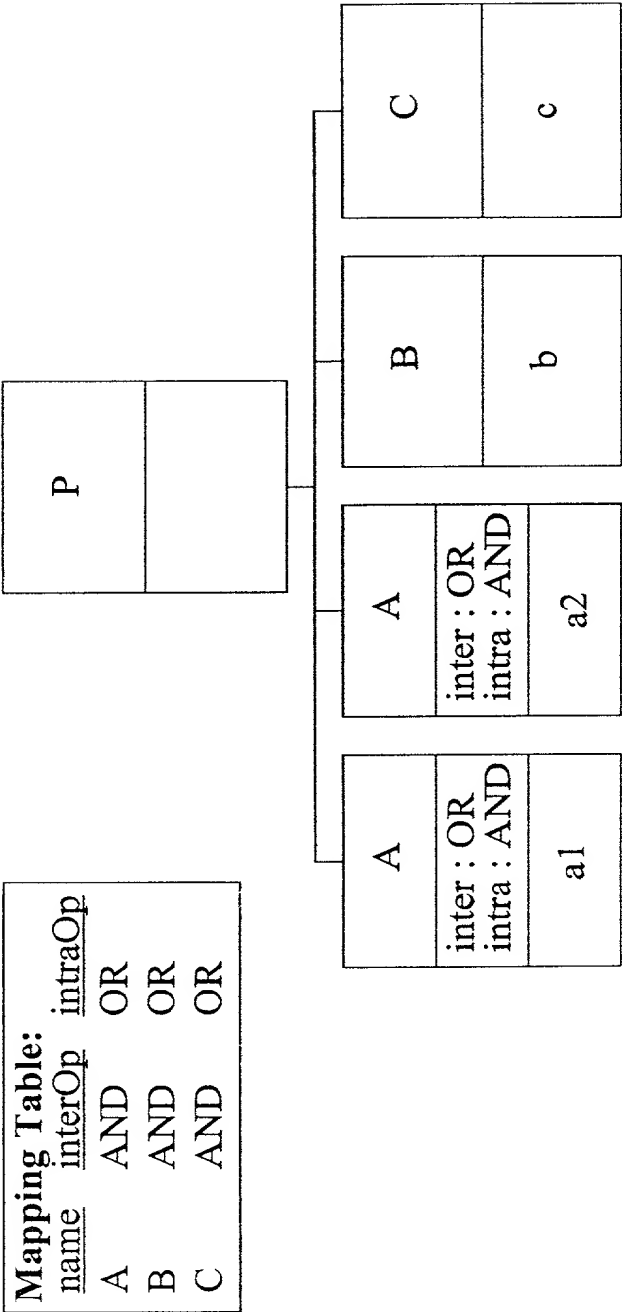


FIG. 48

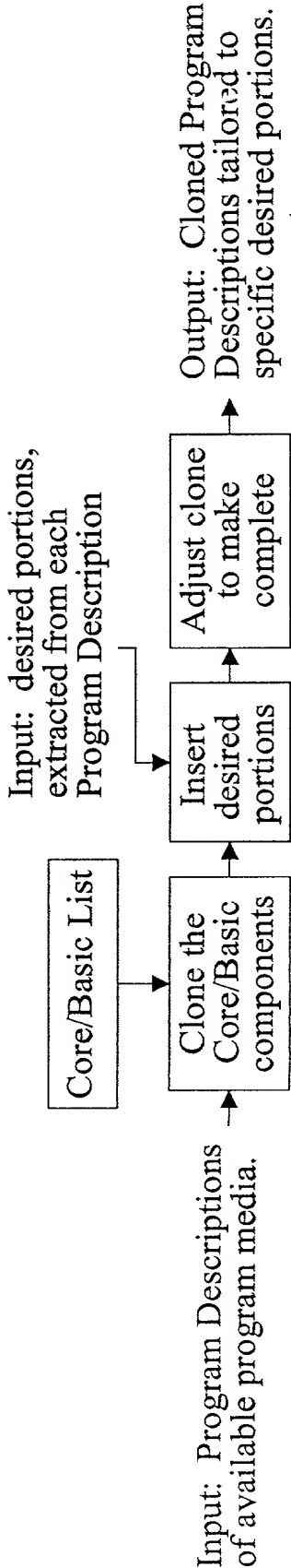


FIG. 49

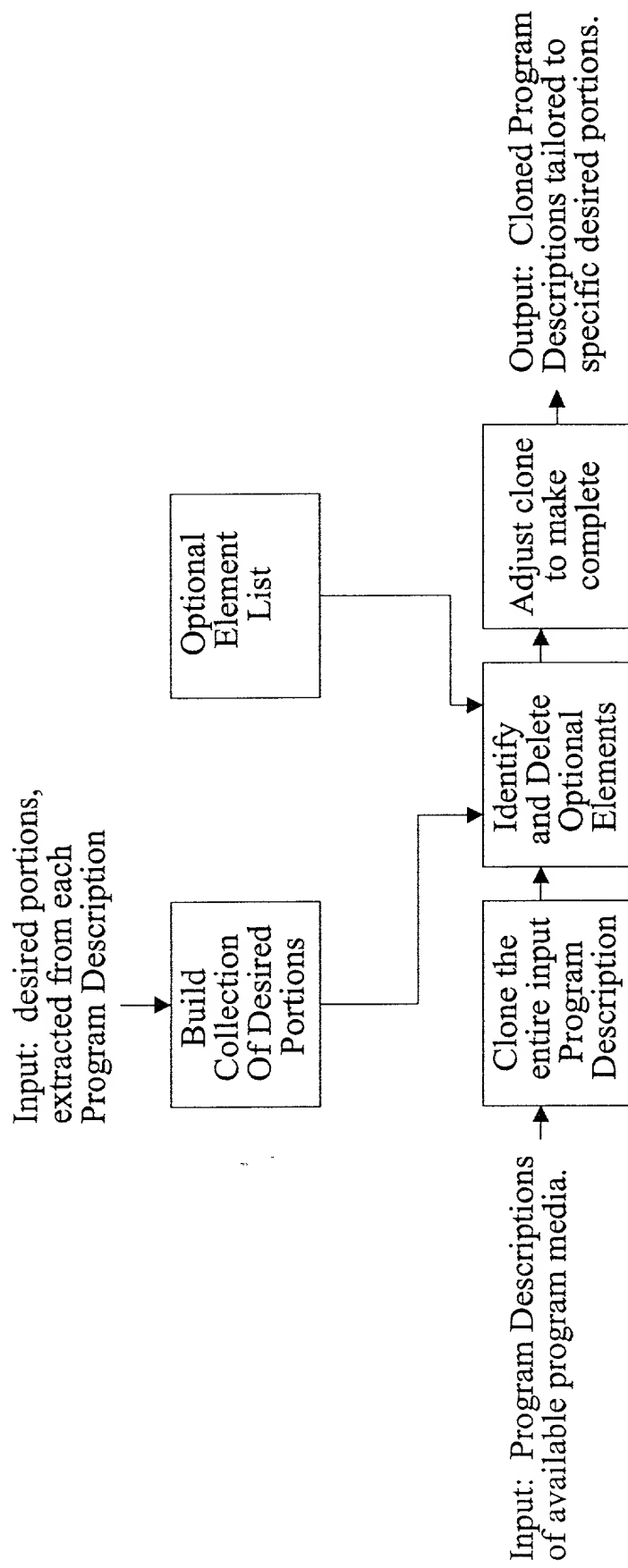


FIG. 50



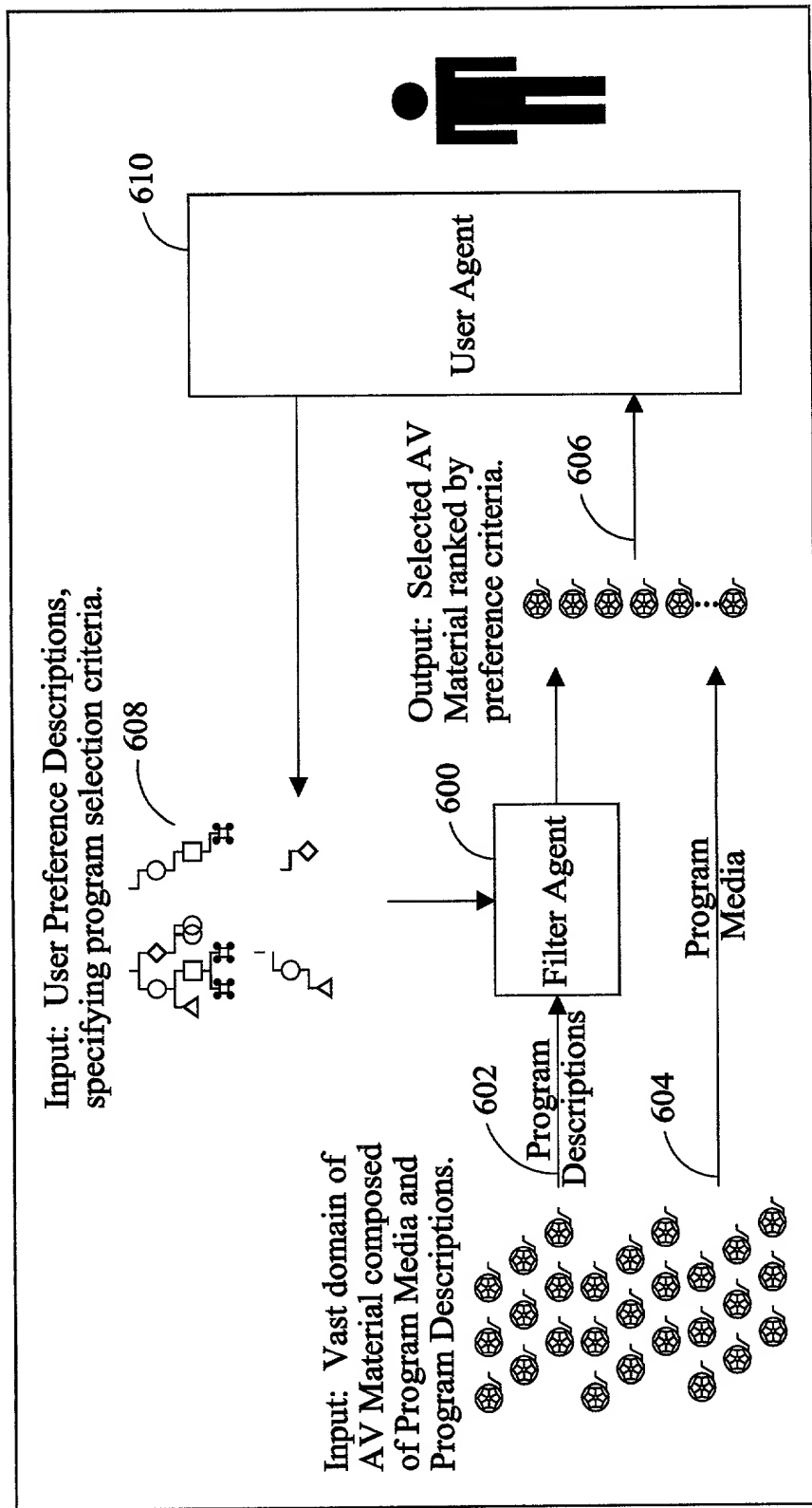


FIG. 51

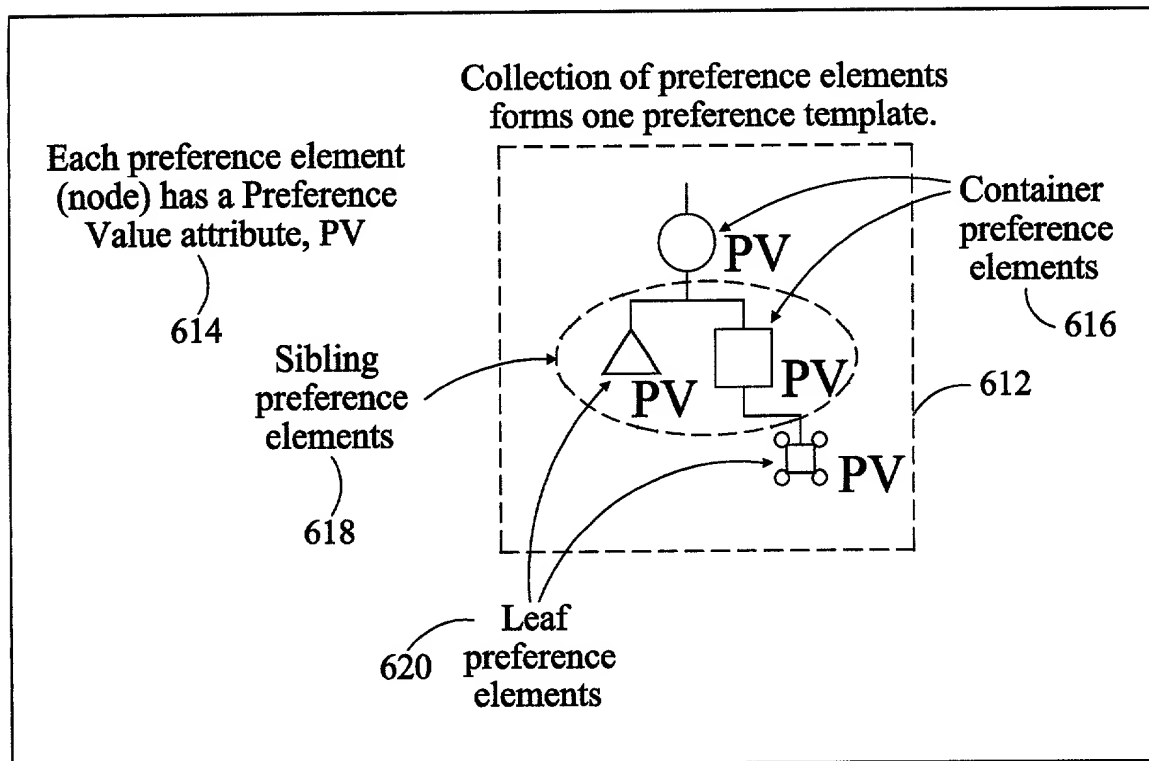


FIG. 52

Preference Values	
620	Nominal Value
622	Neutral Value
624	Maximum Value
626	Minimum Value
628	Other Value

FIG. 53

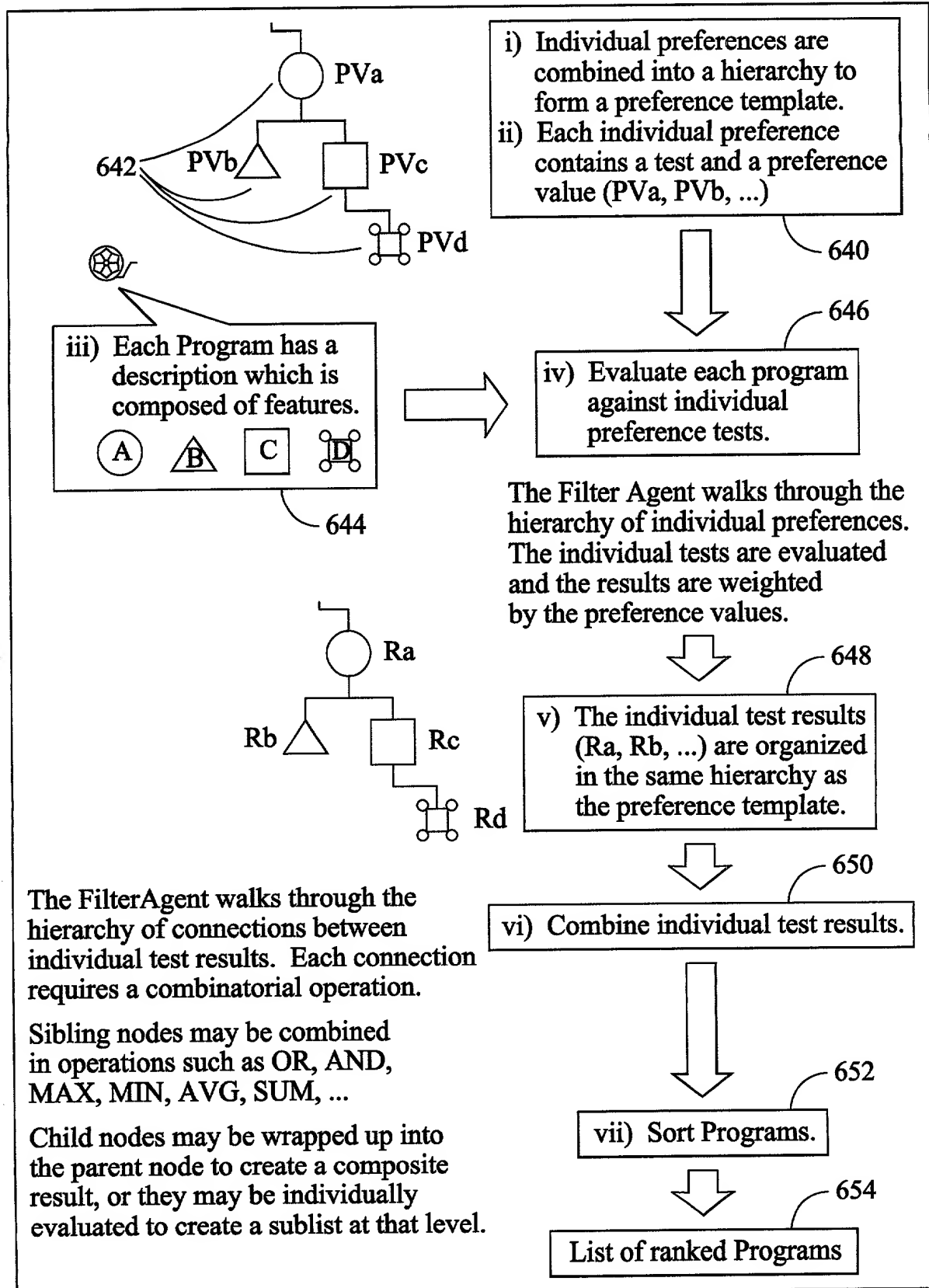


FIG. 54

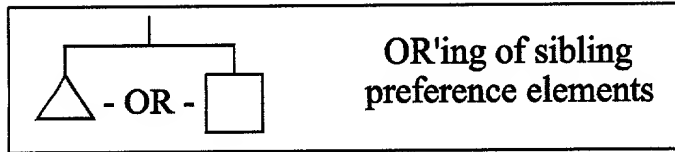


FIG. 55

Program		PVa = 1 OR PVb = 1		Score	Rank
J	A = B = 1	1	1	2	1
K	A = 1, B = 0	1	0	1	2

FIG. 56

Program		PVa = 1 OR PVb = 1		Score	Rank
J	A = 1, B = 0.01	1	0.01	1.01	1
K	A = 1, B = 0	1	0	1	2

FIG. 57

Program		PVa = 4 OR PVb = 1 OR PVc = 1			Score	Rank
J	A = 1, B = C = 0	4	0	0	4	1
K	A = 0, B = C = 1	0	1	1	2	2

FIG. 58

Program		PVa = 4 OR PVb = 1 OR PVc = 1			Score	Rank
J	A = 0.4, B = C = 0	1.6	0	0	1.6	3
K	A = 0.5, B = C = 0	2	0	0	2	2 tied
L	A = 0, B = C = 1	0	1	1	2	2 tied
M	A = 0.1, B = C = 1	0.4	1	1	2.4	1

FIG. 59

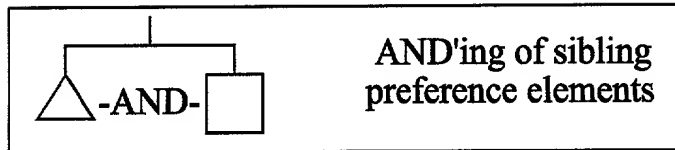


FIG. 60

Program		PVa = 1 AND PVb = 1		Score	Rank
J	A = B = 1	1	1	1	1
K	A = 1, B = 0.5	1	0.5	0.75	2

FIG. 61

Program		PVa = 1 AND PVb = 1		Score	Rank
J	A = B = 0.6	0.6	0.6	0.6	1
K	A = 1, B = 0.1	1	0.1	0.55	2
L	A = B = 0.5	0.5	0.5	0.5	3

FIG. 62

Program		PVa = 1 AND PVb = 1		Score	Rank
J	A = 1, B = 0.9	1	0.9	0.95	1
K	A = B = 0.9	0.9	0.9	0.9	2
L	A = 1, B = 0	1	0	0.5	3

FIG. 63

Program		PVa = 1 AND PVb = 1		Score	Rank
L	A = 1, B = 0	1	0	0.5	reject

FIG. 64

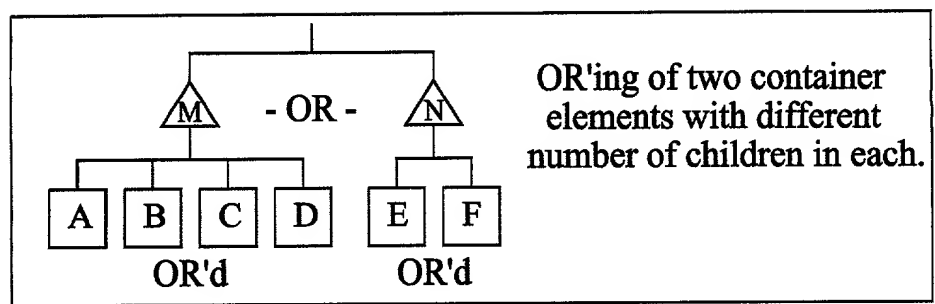


FIG. 65

Program		PV <sub>x</sub> = 1      OR      PV <sub>y</sub> = 1						Score	Rank
		PV <sub>a</sub> =1 OR PV <sub>b</sub> =1 OR PV <sub>c</sub> =1 OR PV <sub>d</sub> =1				PV <sub>d</sub> =1 OR PV <sub>e</sub> =1			
J	A=B=C=1, D=E=F=0	1	1	1	0	0	0	3	1
K	A=B=C=D =0, E=F=1	0	0	0	0	1	1	2	2

FIG. 66

Program		PV <sub>x</sub> = 1      OR      PV <sub>y</sub> = 1						Score	Rank
		PV <sub>a</sub> =1 OR PV <sub>b</sub> =1 OR PV <sub>c</sub> =1 OR PV <sub>d</sub> =1				PV <sub>d</sub> =2 OR PV <sub>e</sub> =2			
J	A=B=C=1, D=E=F=0	1	1	1	0	0	0	3	2
K	A=B=C=D =0, E=F=1	0	0	0	0	2	2	4	1

FIG. 67

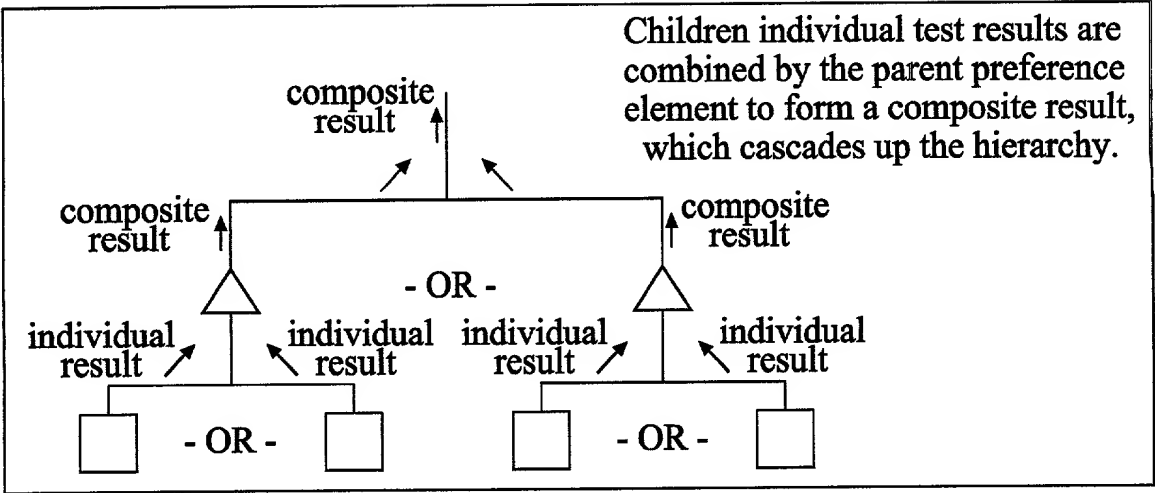


FIG. 68

Program		PV <sub>x</sub> = 0.8		OR		PV <sub>y</sub> = 1		Score	Rank
		PV <sub>a</sub> =1	OR	PV <sub>b</sub> =1	PV <sub>c</sub> =1	OR	PV <sub>d</sub> =0.5		
J	A=1, B=C=D=0	0.8		0	0		0	0.8	1
K	A=B=C=0, D=1	0		0	0		0.5	0.5	2

FIG. 69

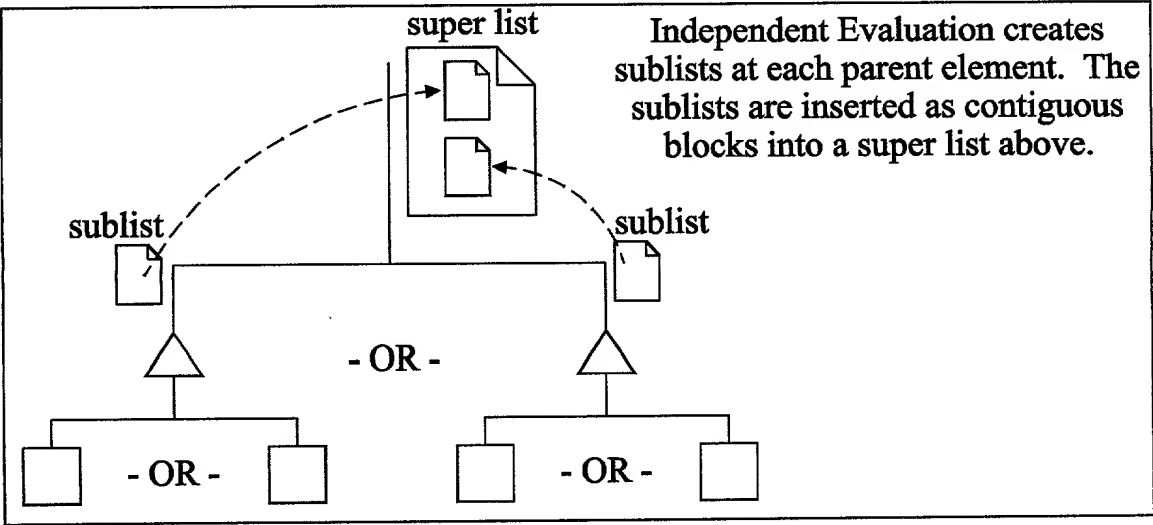


FIG. 70

Program		PVa = 1 OR PVb = 1		Score	Rank
J	A = 1, B=C=D=0	1	0	1	1
K	A=B=C=0, D = 1	0	0	0	reject

FIG. 71

Program		PVc=1 OR PVd=0.5		Score	Rank
J	A = 1, B=C=D=0	0	0	0	reject
K	A=B=C=0, D = 1	0	0.5	0.5	1

FIG. 72

Merging of SubLists into SuperList:

SubLists sorted by Preference Value	Programs in SubList	Rank
SubList Y with PVy = 1	K	1
SubList X with PVx = 0.8	J	2

FIG. 73

Program		PV <sub>x</sub> = 2      AND      PV <sub>y</sub> = 1				Score	Rank
		PV <sub>a</sub> =1 OR PV <sub>b</sub> =1		PV <sub>c</sub> =1 OR PV <sub>d</sub> =1			
J	A=0.9, B=C=D=1	0.9	1	1	1	2.9	2
K	A=B=C=1, D=0.9	1	1	1	0.9	2.95	1

FIG. 74



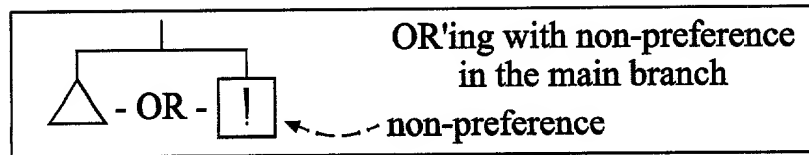


FIG. 75

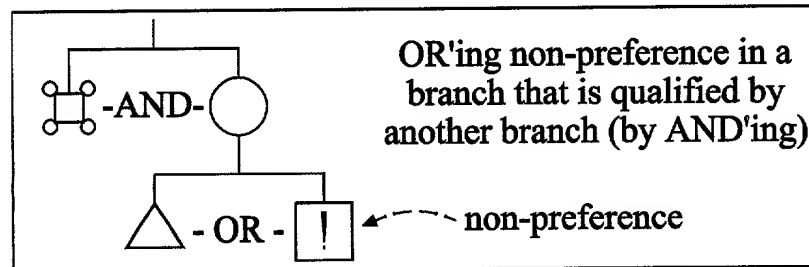


FIG. 76

Program		PVa = 1 OR PVb = -1		Score	Rank
J	A = B = 1	1	0	1	2
K	A = 1, B = 0	1	1	2	1

FIG. 77

Program		PVa = 1 AND PVb = -1		Score	Rank
J	A = 1, B = 0.01	1	-0.01	0.495	2
K	A = 1, B = 0	1	0	0.5	1

FIG. 78

Program		PVa=1 AND PVb=-100		Score	Rank
J	A = 1, B = 0.01	1	-1	0	reject

FIG. 79

Program		PVa = 1 AND PVb = -1		Score	Rank
J	A = 1, B = 0.01	1	-0.01	NA	reject

FIG. 80